CONSTRUCTION NEWS

Some of the Week's Large Projects

AMONG the announcements for the current week are the following:

Proposed Work

Street improvement, Pittsburgh, Pa., voted bonds, $6,127,000.

Bridge, New Orleans, La., E. Watson takes bids about June 1 for bridge over Lake Pontchartrain, $5,000,000.

Water system, Pittsburgh, Pa. voted bonds for renovating water system, $3,900,000.

Floating dock, New Castle, New South Wales, government plans dock, $3,000,000.

Office, Houston, Tex., J. M. West, plans building, $3,000,000.

Administration building, Ossining, N. Y., State Bldg., Commissioner having plans prepared, $2,500,000.

Buildings and improvement, Pittsburgh, Pa. voted bonds for buildings and improvement, $2,500,000.

Apartment, Chicago, Ill., Lowenburg & Lowenberg, Archts. preparing plans and soon takes bids, $2,500,000.

High School, Rochester, N. Y., Bd. of Educ. plans building, $2,000,000.

Cement plant, Lackawanna, N. Y., Federal Portland Cement Co. takes bids in June, $2,000,000.

Improving sewerage system, Pittsburgh, Pa., voted bonds, $2,000,000.

Hotel, Pass Christian, Miss., M. Eisemen, et al, plan hotel, $1,500,000.

Theatre, Baltimore, Md., Stanley Co. of North America soon takes bids, $1,500,000.

Bridge, Pittsburgh, Pa., voted bonds for bridge, $1,450,000.

Hotel, San Diego, Calif., Syndicate having plans prepared, $1,250,000.

Apartment hotel, New York, N. Y., J. G. Siegel having plans prepared, $1,145,000.

Warehouse, Cleveland, O., Cleveland Stevedore Co. having plans prepared, $1,000,000.

Hotel, Terre Haute, Ind., Terre Haute Hotel Co. takes bids early in June, $1,000,000.

School, Elgin, Ill., Chicago Junior School, Inc. having preliminary plans prepared, $1,000,000.

Drainage system, Brownsville, Tex., Cameron Co. making plans, $1,000,000.

Bids Wanted

Road work, Nashville, Tennessee, June 11, State Dept. of Highways & Pub. Wks., grading, paving, bridges, etc. roads in 25 various counties. To exceed $2,000,000.

Contracts

Warehouse, compress and pier, Houston, Tex., Manchester Terminal Corp. will build by day labor, $5,000,000.

Hotel, Chicago, Ill., Rissman & Hirschfeld, Archts., to A. Brundage, $3,000,000.

Gas pipe line, Childress, Tex., Upham Gas Co. will build 356 mi. 12 in. gas pipe line by day labor, $3,000,000.

Classified Index of Bids Wanted

Waterworks

Bids close		*See Eng. News-Record*
May 28	New York	May 20
May 28	Massachusetts	May 27
June 1	Brooklyn, N. Y.	May 27
June 1	Midland, Mich.	May 27
June 1	Libertyville, Ill.	May 27
June 1	Osyka, Miss.	May 27
June 2	Wash., D. C. Adv. May 27.	May 27
June 2	New York, N. Y.	May 6
June 2	Sanford, N. C.	May 20
June 7	Vermilion, O.	May 20
June 7	Healdsburg, Calif.	May 20
June 7	Placerville, Calif.	May 20
June 7	Rahway, N. J. Adv. May 20 and 27.	May 20
June 7	Crosby, N. D.	May 20
June 7	Springville, Calif.	May 27
June 7	Crenshaw, Miss.	May 27
June 8	Illinois	May 27
June 10	Sonyea, N. Y. Adv. May 27.	May 27

Sewers

May 28	Akron, N. Y.	May 13
May 28	Watkins, Kan.	May 20
May 31	Selma, Ala.	May 13
May 31	Selma, Ala.	May 27
June 1	Los Angeles, Calif.	May 20
June 1	Lakewood (Cleveland P. O.), O.	May 27
June 2	Westby, Wis.	May 27
June 2	Detroit, Mich. Adv. May 20 and 27.	May 20
June 3	New York, N. Y.	May 27
June 7	Crosby, N. D.	May 20
June 8	St. Louis, Mo.	May 13
June 8	Lyndonville, N. Y.	May 20
June 10	Mamaroneck, N. Y. Adv. May 27.	May 27
June 14	Ojai, Calif.	May 27

Waste Disposal

June 3	Mobile, Ala.	May 6
June 4	New Dorp (sta. Staten Island), N. Y.	May 27
June 8	Trenton, N. J. Adv. May 27.	May 27
June 8	Gulfport, Fla.	May 27

Bridges

May 31	London, Ont.	May 27
June 1	Ontario	May 27
June 1	Massachusetts	May 20
June 1	Sebring, Fla.	May 6
June 1	Mercer, Pa. Adv. May 13 to 27.	May 13
June 1	Jacksonville, Fla.	May 13
June 4	Pennsylvania	May 27
June 4	La Crosse, Wis.	May 27
June 4	Wyoming	May 27
June 7	California	May 27
June 8	Cohoes, N. Y. Adv. May 27.	May 27
June 8	South Dakota	May 27
June 8	Massachusetts	May 27
June 9	Illinois	May 27
June 14	Huntington, W. Va.	May 27

Excavation, Drainage, Irrigation, Levees, River and Harbor

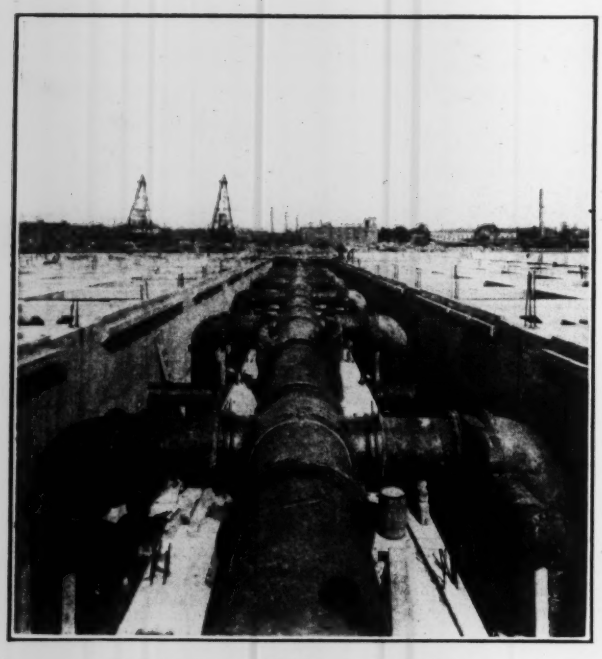
May 31	Bradentown, Fla.	May 13
June 1	Galveston, Tex.	Apr. 29
June 2	New York, N. Y. Adv. May 20 and 27.	May 20
June 4	Albany, N. Y. Adv. May 13 to 27.	May 13
June 8	Springfield, Ill.	May 20
June 15	Clewiston, Fla.	May 27
June 15	St. Louis, Mo.	May 13

Streets and Roads

May 28	Freeport, N. Y.	May 13
May 28	Cincinnati, O.	May 20
May 28	Hamilton, O.	May 20
May 27	Long Island City, N. Y.	May 27
May 29	Cleveland, O.	May 27
May 31	Garnett, Kan.	May 13
May 31	Toledo, Ia.	May 27
May 31	Arkansas	May 27
May 31	Falls City, Neb.	May 27
June 1	Maxville, Ont.	May 27
June 1	Lakewood (Cleveland P. O.), O.	May 27
June 1	Trenton, N. J.	May 27
June 1	Gobels, Mich.	May 20
June 1	Birmingham, Ala.	Apr. 22
June 1	St. Louis, Mo.	May 13
June 1	Maryland Adv. May 20 and 27.	May 20
June 1	West Virginia	May 20
June 1	Newton, N. J. Adv. May 20 and 27.	May 20
June 1	Massachusetts	May 20
June 1	Anna, Ill.	May 27
June 1	De Pue, Ill.	May 27
June 1	Summit, N. J.	May 27
June 1	St. George, N. Y.	May 27
June 2	Cleveland, O.	May 27
June 2	Baltimore, Md.	May 27
June 2	Omaha, Neb.	May 20
June 2	Greensburg, Pa.	May 20
June 3	Pennsylvania Adv. May 20 and 27.	May 20
June 3	Terre Haute, Ind.	May 27
June 3	New York, N. Y.	May 27
June 3	Marysville, Kan.	May 27
June 3	Wisconsin	May 27
June 3	Fond du Lac, Wis.	May 27
June 4	Adel, Ga.	May 27
June 4	Wisconsin	May 27
June 4	Wyoming	May 27
June 4	Akron, O.	May 27
June 4	Cincinnati, O.	May 27
June 4	White Plains, N. Y. Adv. May 20 and 27.	May 27
June 4	Columbus, Kan.	May 13
June 5	Groveton, Tex.	May 27
June 5	Idaho	May 27
June 7	Oroville, Calif.	May 27
June 7	Monroe, Mich.	May 27
June 7	Akron, O.	May 13
June 7	Salina, Kan.	May 13
June 7	San Jose, Calif.	May 20
June 7	Martinez, Calif.	May 20
June 7	California	May 27
June 7	La Porte, Ind.	May 27
June 7	Chicago, Ill.	May 27
June 7	Tunica, Miss.	May 27
June 7	Curwensville, Pa.	May 27
June 8	Crown Point, Ind.	May 27
June 8	Maryland	May 27
June 8	Wabash, Ind.	May 13
June 8	St. Louis, Mo.	May 13
June 8	Eldorado, Kan.	May 13
June 8	St. Louis, Mo.	May 20
June 8	Lakewood, N. J. Adv. May 20 and 27.	May 20
June 8	Warsaw, Ind.	May 20
June 8	Dover, N. J. Adv. May 20 and 27.	May 20
June 8	Virginia Adv. May 27.	May 27
June 9	Illinois	May 27
June 9	Delaware	May 20
June 9	Harrison, Mich.	May 20
June 9	Freehold, N. J. Adv. May 27.	May 27
June 10	Coldwater, Kan.	May 27
June 10	Muskogee, Okla.	May 27
June 11	Seymour, Tex.	May 27
June 11	Tennessee Adv. May 27.	May 27
June 11	Coldwater, Kan.	May 13
June 11	Fellsmere, Fla.	May 13
June 11	Olathe, Kan.	May 13
June 12	Lake Charles, La.	May 20
June 14	Moundsville, W. Va.	May 27
June 15	Woodville, Miss.	May 27
June 15	Hillsboro, Tex.	May 27
June 15	Gonzales, Tex.	May 27
June 15	Marlin, Tex.	May 27
June 15	Duluth, Minn.	May 20
June 15	Louisiana	May 20
June 15	Anderson, Ind.	May 13
June 16	Wildwood, N. J. Adv. May 27.	May 27
June 17	Cross Roads (Felton P. O.), Pa. Adv. May 27.	May 27
June 17	Felton, Pa. Adv. May 27.	May 27
June 22	Duluth, Minn.	May 20

See proposal advertising on page 168, Advertising Section

TRADE "LEADITE" MARK
Registered U. S. Pat. Office



Pipe gallery Buffalo's new filter plant; joints made with Leadite.

Visit Our Booth at the American Water Works Convention

Used by
City of Buffalo, N. Y. For Over 20 Years

Buffalo is proud of its water works system.

It is proud of its new modern filter plant just completed and representing an investment of millions of dollars.

That is why the City of Buffalo wanted the Convention of the American Water Works Association to meet there this year, June 7th to 11th.

They wanted other water works men thruout the country to see what they have accomplished.

Buffalo has laid about 40 miles of c.i. bell and spigot water mains with Leadite.

They have tested and used Leadite for over 20 years.

The up-to-date water works man specifies and uses LEADITE.

LEADITE saves at least 75%.

LEADITE is the pioneer self-caulking material for c. i. pipe

Be Sure It Is LEADITE and Accept No Imitations

THE LEADITE COMPANY, Inc.
1512 Land Title Building, Philadelphia, Pa., U. S. A.

NO CAULKING

Buildings—Commercial

Bids close		See Eng. News-Record
May 31	Woonsocket, R. I.	May 27
June 2	Shreveport, La.	May 27
June 2	Juniata (br. Altoona), Pa.	May 6
June 8	Duluth, Minn.	May 6
June 11	Toms River, N. J. Adv. May 27.	May 27
June 14	New York, N. Y.	Apr. 29
June 14	San Luis Obispo, Calif.	May 27
June 15	Cleveland, O.	May 27
July 4	Texarkana, Tex.	Apr. 22
Sept. 1	Vancouver, B. C.	Apr. 22

Buildings—Industrial

June 1	Lewistown, Pa.	May 27

Buildings—Educational, Religious

May 31	Woonsocket, R. I.	May 20
May 31	Little Rock, Ark.	May 13
May 31	Vancouver, B. C.	May 27
June 1	Mercedes, Tex.	May 20
June 1	Superior, Wis.	May 20
June 1	Phila., Pa.	May 27
June 1	Durham, N. H.	May 27
June 2	Wash., D. C.	May 20
June 2	Jersey City, N. J.	May 27
June 3	Alton, Ill.	May 27
June 3	Perth Amboy, N. J.	May 20
June 4	Akron, O.	May 13
June 8	Brooklyn, N. Y.	May 27
June 10	Medford (br. Boston), Mass.	May 27
June 12	Urbana, Ill.	May 27

Federal Government Work

May 29	Dwellings — Nashville, Tenn.	May 13
June 1	Steel Barges—Memphis, Tenn. Adv. May 6 to 27.	May 6
June 1	Pier—Charleston, S. C. Adv. May 6 to 27.	May 6
June 1	Mezzanine—Boston, Mass.	May 20
June 1	Conduits, etc.—Phila., Pa.	May 27
June 1	Road—South Dakota	May 27
June 1	Road—Colorado	May 27
June 2	Road—Colorado	May 27
June 2	Road—New Mexico	May 27
June 2	Road—California	May 27
June 3	Remodeling — Nashua, N. H.	May 20
June 7	Operating Machinery—Louisville, Ky. Adv. May 13 to 27.	May 13
June 7	Breakwater—Presque Isle, Mich.	May 20
June 8	Hospital, etc.—North Chicago, Ill.	May 6
June 8	Mess Hall, etc.—Devils Lake, N. D.	May 27
June 9	Compass Station — Empire, Ore.	May 13
June 9	Gates—Pittsburgh, Pa. Adv. May 13 to 27.	May 13
June 9	Boilers — Terre Haute, Ind.	May 13
June 9	Chimney — Mare Island, Calif.	May 20
June 9	Dredging—Quantico, Va.	May 27
June 10	Dredging—San Diego, Calif.	May 27
June 10	Laboratory—Fort Benning, Ga. Adv. May 20 and 27.	May 20
June 10	Tower—New York, N. Y. Adv. May 20 and 27.	May 20
June 10	Power Plant, etc.—Hot Springs, Ark.	May 20
June 11	Dredging—Green Bay, Wis. Adv. May 20 and 27.	May 20
June 11	Remodeling—Plattsburg, N. Y.	May 27
June 11	Administration, etc.—Dayton, O. Adv. May 27.	May 27
June 12	Docking Caissons—Huntington, W. Va.	May 20
June 14	Hangar—Wash., D. C.	May 20
June 14	Hulls, etc.—Louisville, Ky. Adv. May 20 and 27.	May 20
June 15	Barn, etc. — St. Cloud, Minn. Adv. May 20 and 27.	May 20
June 16	Houses—Pittsburgh, Pa. Adv. May 20 and 27.	May 20
June 17	Boilers, etc.—Winona, Minn. Adv. May 27.	May 27
June 18	Houses—Pittsburgh, Pa. Adv. May 27.	May 27
June 21	Hospital, etc.—Palo Alto, Calif. Adv. May 20 and 27.	May 6
June 21	Water System — Ft. Warren, Mass.	May 27
June 21	Dam—Pittsburgh, Pa. Adv. May 27.	May 27
June 22	Dredging—Chicago, Ill. Adv. May 27.	May 27
June 28	Kitchen, etc.—Livermore, Calif.	May 27
July 7	Motors, etc.—Wash., D. C.	May 13
July 15	Dredging—Hawaii Adv. May 13 to 27.	May 13

Unclassified

May 28	Waterproofing Standpipe, etc. —Walpole, Mass.	Apr. 29
May 28	Tracking, etc.—New York, N. Y.	May 20
May 28	Fill—Corona (Ind. sta. Flushing), N. Y.	May 20
May 29	Airplane Hangar—Lansing, Ill.	May 27
May 31	Wharf—Mobile, Ala.	Apr. 29
June 1	Wharf Sheds—Lake Charles, La.	May 20
June 3	Heating and Sanitary Work—Raybrook, N. Y.	May 13
June 7	Heating and Ventilating—Detroit, Mich.	May 20
June 7	Station Finish Work—New York, N. Y.	May 27
June 9	Culvert, etc.—New Rochelle, N. Y. Adv. May 20 and 27.	May 20
June 16	Subway—Phila., Pa.	May 27
June 16	Sanitary Work, etc.—Utica, N. Y. Adv. May 27.	May 27
Sept. 30	Crane Gantries, etc.—Otahulu, New Zealand	May 20

Materials

June 1	Cement—Chicago, Ill.	May 27
June 2	Rails—Melbourne, Australia	May 27
June 4	Cement, etc.—St. George, N. Y.	May 27
June 4	Gas Pipe, etc.—Richmond, Va.	May 20
June 11	Gravel—Louisiana	May 20

News of New Work

Waterworks

Proposed Work

Mass., Chicopee — Appropriated $200,000 for dam at Cooley Brook Reservoir, and $25,000 for piping.

Mass., West Roxbury (Boston P. O.)—Dept. Pub. Wks., Boston, plans surface water conduit in Brookstone St., here, $148,000. J. H. Sullivan, comr.

Pa., Pittsburgh—Voted $3,900,000 bonds, renovating water system.

N. C., Durham — City plans to issue $500,000 bonds, waterworks and dam at Flat River and extending mains into new area of city. R. W. Rigsbee, Durham, city mgr.

N. C., Liberty — Takes bids about July 20, water and sewerage systems. Spoon, Lewis & Camp, 407-8-9 Amer. Bank Bldg., Greensboro, consult. engrs.

Ala., Hartsville—Election May 30, $65,000 bonds, waterworks and sewers in various streets.

Miss., Gulfport—Soon takes bids 1 m.g. rein.-con. reservoir. H. D. Shaw, Gulfport, engr. Noted Jan. 28.

Mich., Detroit—Bd. Water Comrs. plans 415 ft. 6 in. c.i. mains in Graydon Ave., 1,250 ft. Eagling Ave., 1,600 ft. Troester Ave., 1,350 ft. Glen Ave., 1,350 ft. Tecumseh Ave., 1,380 ft. Hazelridge Ave. and 1,080 ft. Young Ave.; 1,350 ft. 8 in. in Highplanes Ave. 1,250 ft. Roberts Ave. 1,285 ft. Seymour Ave. 1,350 ft. Belmont Ave. 1,430 ft. Cedar Grove Ave. 2,260 ft. Myland Ave. and 660 ft. Six Mile Rd. 1,375 ft. 16 in. in West Chicago Blvd. and 725 ft. Evergreen Ave. G. H. Fenkell, 176 East Jefferson Ave., genl. mgr.

Mich., Detroit — Dept. Water Supply, plans 3,315 ft. 8 in. mains in Asbury Park Ave., 565 ft. Gainsboro Ave., 2,660 ft. St. Marys Ave., 1790 ft. Laing Ave., 2,660 ft. Rutherford Ave. and 1,200 ft. in Eastburn Ave.; 6 in. in 2,600 ft. Cherrylawn Ave., 2,660 ft. Mettetal Ave., 2660 ft. Mansfield Ave. and 1,140 ft. in Burgard Dr. G. H. Fenkell, genl. mgr., 176 East Jefferson Ave., engr.

Ill., Dupo — Plans waterworks and distribution system, incl. motor driven pumping equipment, etc. $125,000. Schwab & Sheppard, Alton, engrs.

Wis., Gillett—P. Nygaard, village clk., making plans waterworks. $45,000 bonds voted. McMahon & Clark, Menasha, engrs. Noted Dec. 31.

Wis., Wausau—Plans to issue $125,000 bonds, constructing filtration-aeration plant for waterwork. W. G. Kirchoffer, 22 North Carroll St., Madison, engr. Noted Mar. 25.

Ia., Ames—Plans filtration plant. $28,000. P. H. Hopkins, city engr.

Minn., Dilworth—Election June 21, $20,000 bonds, waterworks. $35,000. Luckey-Miller Co., Fargo, N. D., engrs.

Kan., Topeka — Making surveys and plans water supply in Highland Park and Oakland addition. To exceed $15,000. Black & Veatch, 700 Mutual Bldg., Kansas City, Mo., engrs.

Ark., Foreman — Dist. 1 plans waterworks. $45,000. C. W. Williams, mayor. Engineer not selected. Noted Jan. 29.

Okla., Avord—Making preliminary plans new waterworks. $20,000. T. D. Owens, mayor. Engineer not selected.

Okla., Hydro—Made preliminary plans extending mains, etc., in various streets. $17,000. H. M. Marshall, mayor. Engineer not selected.

Colo., Longmont—Plans concrete storage reservoir 100 ft. high, on North St. Vrain Creek. Water will serve to augment the city's water supply and then provide water for turbines when regular source is low. $150,000.

Wash., Everett—Defeated $260,000 bonds, Flowing Lake Water Project. Noted Mar. 25.

Calif., Livingston—See "Sewers."

Calif., San Jose—East Side Water Dist. plans election $200,000 bonds, 3 reservoirs to feed from deep wells to be lifted from main in Alum Rock Ave. by series booster stations.

Calif., Los Angeles — Los Angeles Co. made plans 2.92 mi. c.i. mains in Hammerton Tract. $25,350.

Calif., Santa Cruz — Plans to purchase 5,000 ft. each 4 in. and 6 in. Class B c.i. pipe, bell spigot joints, tees and crosses. J. K. James, city engr.

B. C., Penticton—Plans election $60,000 bonds, additions and improvements to waterworks.

THESE reports are grouped under each class (water-works, sewers, etc.) and under each stage of the work (proposed, bids desired, etc.), according to the following geographic sections: New England, Middle Atlantic, South, Middle West, between Mississippi and Rocky Mountains, Far West, and Canada.

Where name of official is not given inquiries should be addressed to City Clerk, County Clerk, or corresponding official.

Bids Desired

Massachusetts — May 28, by Dept. Pub. Health, State House, Boston, pumping station near shores of Clear Pond, power transmission lines for Lakeville State Sanatorium, etc., at Lakeville. To exceed $25,000. G. M. Bigelow, comr.

N. Y., Brooklyn—June 1, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York City, steel and c.i. mains in Ocean Parkway, Church and Gravesend Aves., etc., here.

N. Y., Sonyea—June 10, by Superintendent Purchase, Capitol, Albany, replacing and extending watermains, etc. at Craig Colony, here; adv. E. N.-R. May 27.

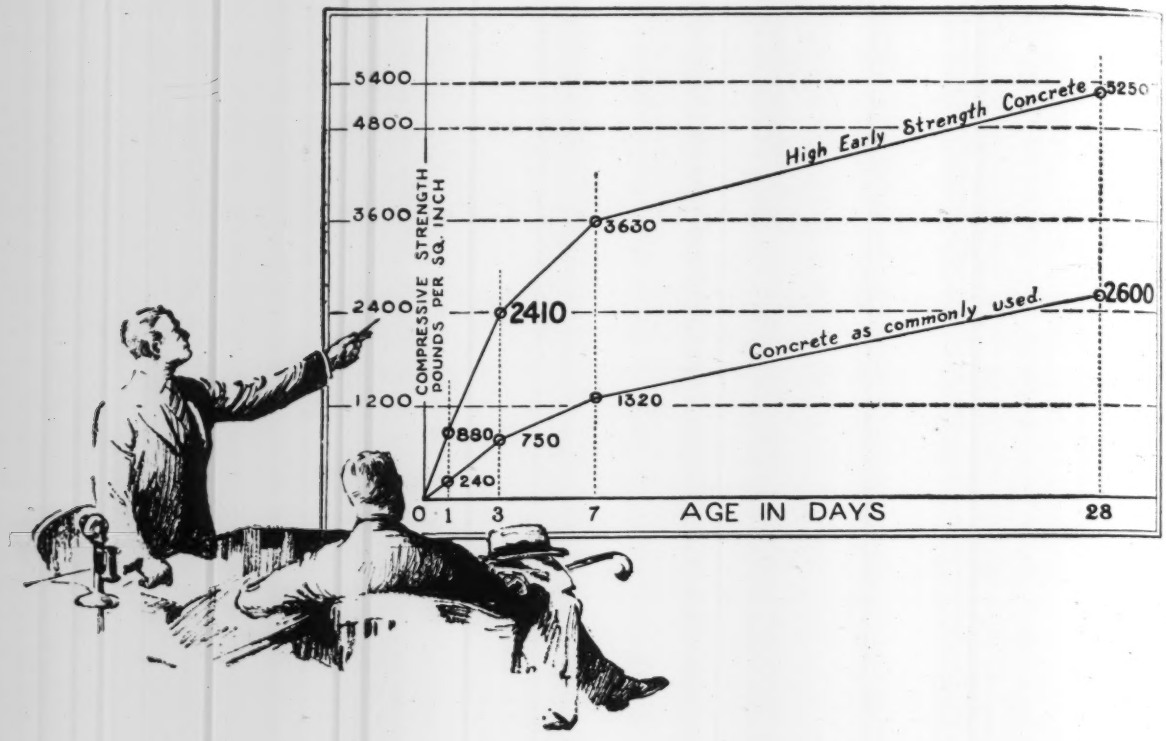
D. C., Wash. — June 2, by Washington Surburban Sanitary Dist., Evans Bldg., New York Ave., 43,000 ft. 6- to 12-in. c.i. pipe Contr. 61-W. R. B. Morse, Hyattsville, Md., ch. engr. of Dist.; adv. E. N.-R. May 27.

Miss., Crenshaw — June 7, by B. S. Woolard, mayor, and Bd. Aldermen, new waterworks.

Miss., Osyka—June 1, by A. J. Williams, mayor and Town Council, 4 and 6 in. artesian well.

Mich., Midland—June 1, by A. E. Coons, city clk., high lift pumping plant with 2 m.g.d. rein.-con. filtration and softening plant, also clear water reservoir with 0.6

See classified index on bids wanted on page 327



When Your Rush Work Demands High Early Strength Concrete

You want to rush a job to completion. Among other things you do not want to wait the weeks usually required for concrete to gain the desired strength. You do not need to.

By using well-authenticated methods and standard *Universal* cement, the same quality *Universal* regularly used, you can obtain *strong* concrete in *3 days* and at the same time get a concrete that is much better and much stronger forever after.

The chart tells the story. In *3 days*, concrete made this new way, with standard *Universal* cement, has a strength equal to ordinary 28-day concrete. In addition, its 28-day strength is double the 28-day strength ordinarily obtained and it is much better and much stronger concrete forever after.

Detailed information on the methods for obtaining this time-saving, high early strength concrete will be furnished promptly on request to

Universal Portland Cement Co.

Chicago Pittsburgh Minneapolis Duluth Cleveland Columbus New York

Concrete for Permanence

Waterworks (Continued)

m.g. capacity, etc. Hoad, Decker, Shoecraft & Drury, Ann Arbor, engrs.

Illinois—June 8, at office Dept. Purchases & Constr. Div. Waterways, State House, Springfield, L. Small, dir., fabricating, furnishing and erecting miter lock gates, anchorages and culvert valves of Illinois Waterways at Lockport and Marseilles locks, 2,546,000 lb. structural steel, 126,000 lb. steel castings, 46,000 lb. steel forgings, 59,000 lb. other metal work. M. B. Barnes, ch. engr.

Ill., Libertyville — June 1, by Village Clerk, 13,190 sq.yd. 6- to 14-in. c.i. pipe, 30 hydrants, 15 gate valves, etc. $32,000. Kelker DeLeuw & Co., 111 West Washington St., Chicago, engrs. Noted May 20.

Calif., Springville—June 7, by Directors Springville Public Utility Dist., extending water system, 1,068 ft. Matheson joint pipe, double dipped, 2,310 lin.ft. Matheson joint pipe, 1,000 ft. 2 in. standard wrought steel black pipe, etc.

Bids Received

N. J., Jamesburg — Bd. Institutions & Agencies, W. J. Ellis, comr., Trenton, May 10, waterworks improvements at State Home for Boys, here, 250,000 gal. tank, from Pittsburgh-Des Moines Steel Co., 50 Church St., New York City, $19,900; 200,000 gal. tank, from Chicago Bridge & Iron Co., 30 Church St., New York City, $17,770; and pump, from Crain Pump & Lumber Co., 623 Arch St., Phila., Pa., $10,012. Noted May 6.

Contracts Awarded

N. Y., Brooklyn — N. J. Hayes, comr. Supply, Gas & Electricity, Municipal Bldg., New York City, mains, etc. in Flatbush, Livonia, Rockaway, Scott, Troy Aves., etc., to N. D. Stefano, 378 Woodstock Ave., St. George, $7,250. Noted May 6.

N. Y., Long Island City — N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York City, mains in Ditmars and 60th Aves., Edison, Indiana, Olmstead and Tesla Pls., etc., here, to Wataga Contg. Co., 308 Lenox Ave., New York City, $7,110. Noted May 20.

N. J., Cedar Grove—Twp. Com., Pompton Ave., water distribution system, to Romano & Saggese, Main St., Montclair, (unofficial) $107,000; stand pipe, to Chicago Bridge & Iron Wks., 30 Church St., New York City, $3,400; pumping station building, to F. Pollara, 20 Farrington St., Caldwell, $4,575; and pumping station equipment, to Watson-Flagg Eng. Co., 120 Liberty St., New York City, $10,437. Grand total $125,412. Noted May 6.

N. J., Livingston—Twp. Com., Livingston Ave., 11,500 lin.ft. c.i. mains, etc. in Livingston Ave., to W. G. Fritz, 258 Valley Rd., West Orange, $45,641.

Pa., Phila.—Comrs. Fairmont Park, 127 City Hall, air lift pumping equipment at aquarium, East Fairmont Park, to Roberts Filter Mfg. Co., Darby, $4,480. Noted May 13.

Md., Baltimore—Bd. Awards, mains and excavating trenches in York Rd., for Bureau Water Supply, to M. and J. B. McHugh, 3414 Springdale Ave., $23,767. Noted May 20.

N. C., Liberty—Town, drilling wells, to Virginia Mchy. & Well Co., 1319 Main St., Richmond, Va. Noted Apr. 29.

Tenn., Rutherford — Waterworks, incl. steel tank, tower, rein.-con. reservoir, mains, hydrants, etc., to Pittsburg-Des Moines Steel Co., Tuttle and Southwest 10th Sts., Des Moines, Ia., approximately. $32,300. Noted Jan. 14.

O., Cleveland—Cuyahoga Co., 9,700 ft. 8- to 12-in. c.i. mains in Impvt. 451, Brecksville Rd., to A. Marra Co., Engineers Bldg., $51,101. Noted May 20.

Wis., Milwaukee—Dept. Pub. Wks., R. E. Stoelting, comr., 12,033 ft. 6- to 16-in. mains in various streets, to Mierswa Constr. Co., 1619 Oregon St., Oshkosh, $14,019. Noted May 6.

Neb., Nelson—J. J. Pfeiffer, city clk., to McWayne Pipe Co., Chicago, Ill., c.i. pipe, Sect. 1 at $2,104; to Paxton & Vierling Iron Wks., 17th St. and Union Pacific R.R. tracks, Omaha, c.i. specials, Sect. 1, $170; to Interstate Mchy. & Supply Co., 1006 Douglas St., Omaha, Sects. 2, 3 and 4, $4,306, Sect. 5 $1,900, Sect. 6 $650, Sect. 9 $585 and Sect. 18 $1,500; to E. W. Bachrach & Co., 207 Rialto Bldg., Kansas City, Mo., Sect. 7 $406; to Hastey & Sheeley, Falls City, Sect. 8 $395, Sect. 10 $5,270, Sect. 11 $1,231, Sect. 12 $3,375, Sect. 13 $3,639, Sect. 14 $2,982, Sect. 15 $1,666, Sect. 16 $778 and Sect. 17 $1,507; and to South Nebraska Power Co., Sect. 19 $516. Grand total $32,980.

Ark., Fayetteville—Steel and stone pumping station, to J. A. Fraser, Fayetteville, $6,785; and equipment, incl. 1,200 gal. duplex pump, etc., to Fairbanks-Morse Mchy Co., 900 South Wabash Ave., Chicago, Ill., approximately $40,000. Noted Feb. 11.

Calif., Pasadena — To Amer. C. I. Pipe Co., Rives-Strong Bldgs., Los Angeles, Mono-Cast centrifugal c.i. pipe, 40,000 ft. 6 in. "B" at $0.7465 per ft., and 10,000 ft. 8 in. $1.0675; to U. S. C. I. Pipe Co., Monadnock Bldg., San Francisco, 4,000 16 in. $3.15; to Natl. C. I. Pipe Co., Hellman Bank Bldg., Los Angeles, 10,000 ft. 4 in. $0.5486, 8,000 12 in. $2.0755, also 3,600 ft. "C" pipe $0.589, and 7,200 ft. 6 in. $0.905.

Sewers

Proposed Work

N. J., Trenton—City Comn. plans various sized drains in Riverside Dr., Stuyvesant and Glenwood Aves., etc. $25,500. A. V. Gregory, City Hall, engr.

Pa., Pittsburgh—Voted $2,000,000 bonds, improving sewerage system.

Ala., Hartaville—See "Waterworks."

La., Bunkie — Voted $160,000 bonds, sewerage system, in Dist. 1. H. A. Mentz, Hammond, engr. Noted Apr. 29.

Tenn., Dresden—Made preliminary plans 7 mi. sanitary sewerage system. $60,000. W. R. McWherter, mayor. Engineer not selected.

O., Akron—W. F. Peters, dir. Pub. Serv. soon takes bids 7,335 ft. 8- to 42-in. vitr. clay trunk and lateral sewers in North Portage Path et al., $91,600; also 10,960 ft. 8- to 30-in. vitr. clay sewers, etc. in Brittain Rd., et al., $46,400. J. E. Root, Municipal Bldg., engr.

Ill., Mounds — Making preliminary plans extending vitr. clay sewers to outlying subdivisions. $25,000. G. F. Dewey, 613 Ohio Ave., Cairo, engr.

Wis., Gillett—P. Nygaard, clk., making plans sewerage system. $30,000 bonds voted. McMahon & Clark, Menasha, engrs.

Wis., Lake Geneva—Made plans and soon takes bids extending 2,730 ft. 10 in. intercepting and 5,115 ft. 8 in. lateral sewers, etc., in various streets Dist. 1. To exceed $25,000. J. G. Skeels, City Hall, engr.

Wis., Waupun—R. Zimmerman, city clk., making plans sewerage system. $25,000. W. G. Kirchoffer, Dean Bldg., Madison, engr.

S. D., Sioux Falls — Making plans approximately 6 mi. sewers in south section near Missouri River. $100,000. R. E. Bragstad, city engr.

N. D., Jamestown—Making plans sewage disposal plant. $25,000. W. O. DuPuy, city aud.

Tex., Panhandle—Election June 1, $100,000 bonds, sewerage system. Devlin Eng. Co., Central Bldg., Amarillo, engrs.

Tex., Wolfe City—Plans complete sewerage system. $40,000. Address Mayor.

Wash., Anacortes — City Council soon takes bids (1st unit) sewers in 70 blocks various streets in business district. $51,000. W. B. Short, Anacortes, engr.

Calif., Alhambra—Making plans sewers in various streets in annexed Midwick Addition. To exceed $25,000. H. E. Blake, city engr.

Calif., Livingston—Making plans improving sewer and waterworks, here. To exceed $50,000. A. E. Cowell, Merced, engr.

Calif., Los Angeles — Los Angeles Co. made plans approximately 12 mi. sewers in Co. Impvt. 140 (in West Hollywood Dist.). $150,000 or more. A. K. Warren, Law Bldg., co. drainage engr.

Calif., Oakland—Making plans 670 ft. 33 in. and 380 ft. 27 in. concrete sewer with timber foundation, and 350 ft. 18 in. and 197 ft. 16 in. vitr. pipe sewer with timber foundation and concrete saddle, etc., along Central Pacific R.R. right-of-way between 14th and 18th Aves. W. W. Harmon, city engr.

Ont., Toronto—East York Twp. plans 680 ft. 12 in. vitr. tile sewers in McMichael Ave., $6,275; 535 ft. in Chisholm Ave., $6,430; and 1,200 ft. in Cosburn Ave., $14,388. G. R. Jack, 443 Sammon Ave., engr.

Ont., Toronto—York Twp. plans 3,240 ft. vitr. tile sewers in Methuen and Harshaw Aves., also Easement and lane from Humberview Pumping Station to Raymond Ave. $31,409. F. B. Goedike, 40 Jarvis St., engr.

Bids Desired

N. Y., Mamaroneck — June 10, by Bd. Village Trustees, Boston Post Rd., constructing Contrs. 1 and 2, sewerage system. R. H. Stevens, Hillside Arcade, Larchmont, sanitary engr.; adv. E. N.-R. May 27.

N. Y., New York—June 3, by H. Bruckner, pres. Bronx Boro, Crotona Park, 3rd and Tremont Aves., sewers, etc., in West 235th and 234th Sts.; in Bussing, Bronxwood, Rhinelander, Hobart, Riverdale, Oxford, and in Cambridge Aves. with temporary connection at Spuyten Duyvil Ave.

Ala., Selma—May 31, by City Comn., 18,150 ft. 10- to 15-in. sewers in various streets. Robert & Co., Bona Allen Bldg., Atlanta, Ga., engrs.

O., Lakewood (Cleveland P. O.)—June 1, by City, intercepting sewer in Edgewater Dr. To exceed $25,000. E. A. Fisher, City Hall, engr.

Wis., Westby—June 2, by C. Villand, city clk., constructing sewage disposal plant, vitr. sewers also 6 and 8 in. water mains in various streets. W. G. Kirchoffer, Dean Bldg., Madison, engr. Noted May 6.

Calif., Ojai—June 14, by L. D. Conklin, city clk., vitr., c.i. and wrought iron sewers in various streets, and sewage disposal plant. $100,000. H. B. Waud, 428 Oak St., Ventura, and D. S. Miller, 315 Marine Bank Bldg., Long Beach, engrs.

B. C., Vancouver — See "Contracts Awarded."

Bids Received

Md., Baltimore—Bd. Awards, 17,740 ft. 6- to 16-in. vitr. sewer known as Maidens Choice Trunk Run sewer, Sect. 2, Dist. G-2, Sanitary Contr. 227, from Adams & Marino Co., Old Town Natl. Bank Bldg., $70,935. Noted May 20.

O., Portsmouth—J. Lynn, serv. dir., May 11, sewer in Upper Mill St., from J. A. Grimes, Portsmouth, concrete $62,615 and brick $63,963.

Mich., Detroit—Dept. Pub. Wks., 12,197 ft. vitr. and brick sewers in Lateral 4579, and 13,548 ft. in Lateral 4581, from Ocascro Constr. Co., 1548 Penobscot Bldg., $32,256 and $39,278 respectively; 13,463 ft. in Lateral 4580, from Contg. & Eng. Co., 2206 Dime Bank Bldg., $39,615.

Tex., Galveston—C. A. Holt, Jr., engr., Galveston, rein.-con. storm drain in 24th St. from Ave. J. to Ship Channel, from H. J. Hetkes, 3113 Rä St., Galveston, for City. Approximately $29,600. Noted Apr. 22.

Calif., Glendale—For 30,632 lin.ft. 8 in. vitr. sewer in Palmer Ave., etc., from J. C. Hickey, 320 South Palm Ave., Alhambra, $87,667. Noted May 6.

Contracts Awarded

Me., South Portland (br. Portland) — W. E. Brown, secy. South Portland Sewerage Dist., constructing Sect. 2, trunk line sewer, Contr. B, to Forgione & Romano, Walnut St., $99,554. Noted May 13.

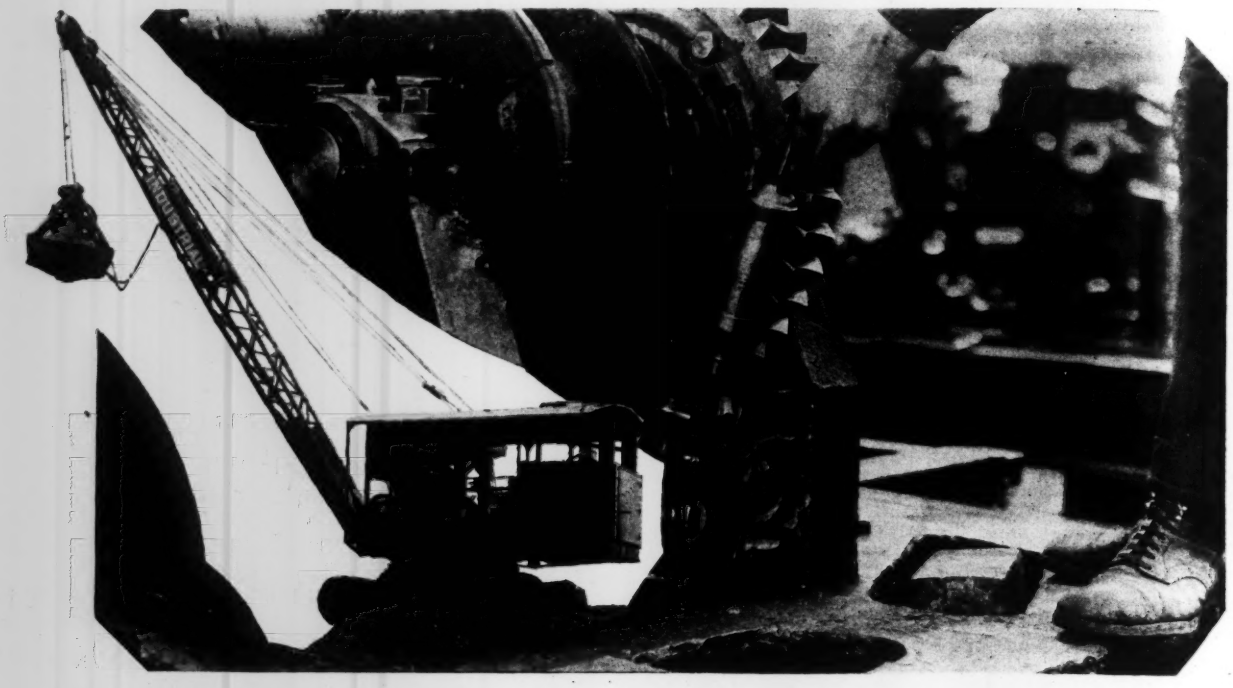
R. I., Providence — Sewers in Sisson, Maplehurst, Cornwall and Fairview Sts., to F. W. Christy, 945 Park Ave., $23,772; in Chad Brown St., to A. Atielle, 107 Westminster St., $1,189; in Devonshire St., to D. Mondillo, $557 Admiral St., $13,678; and in Grosvenor Ave., to A. Gonnelli, 454 Admiral St., $3,399. Grand total $42,038.

N. Y., Brooklyn — J. A. Guider, pres. Brooklyn Boro, Boro Hall, to R. Ivino, 678 Glenmore Ave., sewer in Junius St. $552, Elmore Pl. $294, Varick St. $309, and 9th St. $246; to Manmill Constr. Co., 2035 Douglas St., in Avenue M $268, New Lots Ave. $229 and Colonial Rd. $277; to S. Guerriero, Avenue L $3,244; and to A. W. Matarazzo, 1163 61st St., Avenue L $1,746. Grand total $7,165. Noted May 20.

N. Y., Brooklyn — J. A. Guider, pres. Brooklyn Boro, Boro Hall, to J. Jennings, Belle Harbor, sewer in Van Sicklen St., $19,732; to Tomassetti & Co., 1133 60th St., in Ft. Hamilton Parkway $15,370, and in East 26th St. $41,903; to Manmill Constr. Co., 2035 Douglass St. in East 45th St., $24,279; to A. W. Matarazzo, 1162 61st St., in Ocean Ave. $53,806, 62nd St. $29,819, and Schenectady Ave. $22,223, to R. Nazzarro, 1150 62nd St., in East 18th St. $59,278; to S. Guerriero, in West 10th St. $25,423, and 53rd St. $24,539. Grand total $316,372. Noted May 6.

Pa., Phila.—Dept. Pub. Wks., Bureau of Engineering, main sewers in Green Lane, to Mazzola & Marano, 739 South 7th St., $39,935; Packer Ave., to J. and R. Lombardi, Lincoln Bldg., $247,418; also Crawford and Langdon Sts., to A. Jaffalo & L. Mark, 139 South 50th St., $102,596 and $134,387 respectively. Grand total $524,336. Noted May 20.

D. C., Wash.—District Comrs., District Bldg., to A. McCandlish Co., Wash., D. C., Van Buren Street Service Sewer $2,040, Ralph Pl. Sewer $4,674, and 31st Pl. Sewer $3,200; to M. Cain Co., 13 6th St. N. E., service sewer in Decatur St. $1,874, Minnesota Ave. $9,951, 17th St. $9,197, 39th St. storm sewer $8,895, Wesley Heights trunk sewer $4,585, and Howard Rd. Service Sewer $1,728; to G. B. Mullin Co., 1296 Upshur St., storm sewer in Porter St. $31,798, and James Creek trunk sewer $35,700; to J. A. Forbes, for T St. replacement sewer $2,177, and F St. replacement sewer $6,777; to W. H. Angle, Hagerstown, Md., Owen Pl. Service Sewer $2,511, and East Brighton Sewer



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Sewers (Continued)

$8,039; to W. F. Brenizer Co., 101 New York Ave., Burleith Service Sewer $4,475; and to W. A. Pate, Jr., Rockville, Md., 16th St. Service Sewer $13,869. Grand total $151,490. Noted Apr. 22.

Fla., St. Petersburg — Storm sewers in 16th St. N., 12th St. S., 20th St. S., and connecting streets, to Gedney Constr. Co., St. Petersburg, $494,000; also in Crescent Lake Area, to J. P. Jones, St. Petersburg, $52,000.

Miss., Ocean Springs — See "Streets and Roads."

Mich., Muskegon — H. L. Brown, 711 Union Bank Bldg., 11,700 ft. 6- to 10-in. sewers in Glenside Subdivisions 1 and 2, for Muskegon Utilities Co., to C. Hansen, 1525 Beidler St., 8 and 10 in., $12,976; and to City, City Hall, 6 in., $8,370. Noted May 6.

Calif., Arroya Grande — City Trustees, 20,000 lin.ft. 4 and 8 in. vitr. sewers in various streets, to Oakland Sewer Constr. Co., Oakland, $36,828. Noted Apr. 22.

Calif., Los Angeles—Bd. Pub. Wks., main sewer in Venice Blvd. between Cattaraugus and Hutchinson Aves., to Radich & Tomich, 1253½ Sunset Blvd., $40,000; in Central Ave. between Santa Monica and Pico Blvds., to M. Miller, 208 West 2nd St., $36,119, in Oak Glen Dr., etc., to Olivarri Constr. Co., 107 South Main St., Santa Ana, $26,673. Grand total $102,792. Noted Mar. 25.

Calif., Mill Valley — Town Trustees, sewers in Blithdale, Buena Vista Ave., etc., to J. Currie, 1100 Peninsula Ave., Burlingame, $29,381. Noted Apr. 22.

B. C., Haney—Sewers in various streets, to Dawson Wade & Co. Ltd., Bekins Bldg., Vancouver, $32,200. Engrs. est. $32,540.

B. C., Port Haney—Maple Ridge Municipal Council, 3,200 ft. 12 in. sewer, 10,000 ft. 8 in. laterals, and 600 ft. 6 in. connections in various locations, to Dawson, Wade & Co., Ltd., Bekins Bldg., Vancouver. Engrs. est. $40,000.

B. C., Vancouver—City will install sewers in Kalso St. and 11th Ave., by day labor. $25,400. C. Brackenridge, City Hall, engr.

Waste Disposal

Proposed Work

R. I., Providence—City, M. S. Budlong, chn. Bd. Health, City Hall, plans incinerator plant. $40,000 or more. Private plans.

Conn., Greenwich — Town, Town Hall, plans garbage disposal plant. $50,000 appropriated.

Wis., Wales—State Bd. Control, A. W. Bagley, secy., Madison, having plans prepared by J. C. White, Madison, incinerator and garbage disposal equipment, at State Sanatorium, here.

Bids Desired

N. Y., New Dorp (Sta. Staten Island) —June 4, by J. A. Lynch, pres, Richmond Boro, Boro Hall, St. George, building and runway, furnaces, chimney, etc. for garbage incinerator, here. Noted May 20.

N. J., Trenton—June 8, at office Hamilton Twp. Com., Greenwood School Bldg., Greenwood Ave., incinerator for garbage and refuse, Tampa, Miami, Knapp and Sylvan Aves., Hamilton Twp. C. S. Sinderbeau, 705 Mechanic Bldg., Trenton, twp. engr.; adv. E. N.-R. May 27.

Fla., Gulfport—June 8, by W. W. Swift, town clk., constructing incinerator. $15,000.

Bridges

Proposed Work

Pa., Pittsburgh—Voted $1,450,000 bonds, reconstructing bridges over Pennsylvania R.R. tracks at 28th St., South Aiken and Millvale Aves.; constructing bridge over Woods Run, and approaches to Elizabeth St. bridge over Baltimore & Ohio R.R. tracks, etc.

W. Va., Huntington — Cabell Co. plans one 200 ft., two 110 ft. and three 296 ft. span bridge with 27 ft. roadway and 6 ft. sidewalks over Bayou River at 5th Ave., 986,000 lb. structural steel and 40,000 lb. reinforcing, etc. $100,000. J. M. Oliver, Huntington, engr.

North Carolina — State Hy. Dept., Raleigh, making plans and soon takes bids rein.-con. bridges, etc. on Project 993, Transylvania Co., $60,000; on Project 843, McDowell Co., $25,000; on Project 834, Henderson Co., $65,000; on Project 681, Scotland Co., $34,000; on Project 542, Guilford Co., $52,000; on Project 584, Randolph Co., $89,000; on Project 480, Wake Co., $43,000; on Project 116, Chowan Co., $36,000; and on Project 109, Bertie Co., $67,000. C. M. Upham, highway engr.

Georgia — Whitfield Co. (Dalton) and Murray Co. (Chatsworth) take bids about June 1, 240 ft. steel bridge over Conasauga River. $30,000.

La., New Orleans — E. Watson, c/o Watson-Williams Syndicate, 832 Common St., takes bids about June 1, bridge over portion Lake Pontchartrain. $5,000,000. Elliott-Harmon Eng. Co., Bank of Commerce Bldg., Memphis, Tenn., engrs. Noted Nov. 19.

Tennessee—State Dept. Highways & Pub. Wks., Nashville, making preliminary plans bridge over Tennessee River, on Lenoir City-Sweetwater Rd., Loudon Co. To exceed $250,000. C. N. Bass, highway comr.

Tenn., Chattanooga—Southern R.R. Co., 1300 Pennsylvania Ave., Wash., D. C., B. Harmon, ch. engr., plans viaduct over 3 railroads at 3rd St., 440 ft. structural steel trusses, 1,140 ft. rein.-con. retaining walls, approaches, bituminous roadway, 4,600 cu.yd. rein.-con., 380 reinforcing and 960 tons structural steel.

O., Marion—Marion Co. plans bridge over Whetstone River. $32,000.

Tex., Carthage—See "Streets and Roads."

Tex., Cold Springs — See "Streets and Roads."

Tex., Sanderson — See "Streets and Roads."

Oklahoma — Cherokee Co. (Tahlequah) plans bridge over Grand River between Wagoner and Yonkers. $200,000.

Ont., Toronto—East York Twp. plans 80 to 100 ft. probably concrete bridge over Don River, on Pottery Rd. $25,000. G. R. Jack, 443 Sammon Ave., engr.

Bids Desired

Massachusetts—June 8, by Metropolitan Dist. Com., 1 Ashburton Pl., Boston, rein.-con. bridge over Charles River opposite DeWolf St., Cambridge, 2,000 cu.yd. excav., 35 tons steel sheeting, 4 cofferdams, 5,000 cu.ft. granite masonry, 3 rein.-con. archts., etc. J. R. Rablin, c/o owner, engr.

N. Y., Cohoes—June 8, by Bd. Contr. & Supply, City Hall, bridge over Mohawk River, connecting Bridge Ave. and Ship St.; adv. E. N.-R. May 27.

Pennsylvania — June 4, by Montgomery Smith, purch. agt. Pennsylvania R.R. Co., for Contr. 3, 1926 for girder spans and structural metal work for Bridges, Plans 80207 sheet 1, 80277, 80278, 80285, 80286, 80290, 80296, 80300, 80302, 80312 and 80313. A. C. Shand, Broad St. Sta., Phila., ch. engr.

W. Va., Huntington — June 14, by City Comn., one 1,200 ft. two 100 ft. and two 29½ ft. span steel and concrete bridge over Guyan River, at 5th Ave. $100,000-$125,000. A. B. Maupin, city engr.

Miss., Friar Point — See "Contracts Awarded."

Tennessee—See "Streets and Roads."

Illinois — June 9, by Dept. Pub. Wks. & Buildings, Div. Highways, Springfield, one 23 ft. rein.-con. slab bridge and one 150 ft. rein.-con. girder bridge on Route 7, Sect. 31-B, La Salle Co.; one 30 ft., one 100 ft. and one 60 ft. rein.-con. substructure on Route 13, Sect. 28-B, St. Clair Co.; one 100 ft. and one 60 ft. steel superstructure on Route 13, Sect. 28-C, St. Clair Co.; six 70 ft. span rein.-con. arch bridge on Route 118, Sect. 13-D, Kendall Co. F. T. Sheets, dir.

Wisconsin—See "Streets and Roads."

Wis., La Crosse—June 4, by C. C. Congdon, city engr., 160 ft. rein.-con. deck girder bridge over La Crosse River. $75,000. W. S. Woods, 524 Batavian Bank Bldg., engr. Noted Mar. 18.

Kan., Coldwater — See "Streets and Roads."

Kan., Marysville — See "Streets and Roads."

South Dakota — June 8, by State Hy. Comn., Pierre, constructing 150 ft. steel truss and four 25 ft. timber trestle approach spans on State Aid Project 134, Stanley Co., 10,221 lb. reinforcing, 115,150 lb. structural steel, 6,336 lb. structural steel piling, etc.; also Minnesota Ave. Bridge, 180 ft. rein.-con. cantilever thru girder, and 480 ft. concrete guardrail, in Sioux Falls, 73,800 lb. reinforcing, etc.

Wyoming—See "Streets and Roads."

Arkansas—See "Streets and Roads."

Tex., Marlin—See "Streets and Roads."

California—June 7, by State Hy. Dept., Sacramento, ten 19 ft. span bridge over New River, two 28 ft. span bridge over Tamarack Canal, and one 19 ft. span bridge over Trifolium Canal, all foregoing timber on pile bents, Imperial Co. R. M. Morton, Forum Bldg., Sacramento, engr.

Ontario—June 1, by T. T. Irving, ch. engr. Canadian Natl. Rys., New Union Sta., Toronto, concrete structures, footings, abutments, etc. for bridges in Manouan, Amos, Alderdale, Beachburg, Caramat, Southampton, Montmagny and Danville Subdivisions; also 6 culverts on Drummondville Subdivision. $500,000.

Ont., London—May 31, by City Council, 125 ft. concrete and steel bridge, 32 ft., on Ridout St. $75,000. W. P. Near, City Hall, engr. Noted Jan. 21.

Bids Received

N. Y., Poughkeepsie—F. S. Greene, supt. Pub. Wks., Albany, May 19, 2 main river piers for Mid-Hudson Bridge, here, Contr. 3, from Blakeslee & Rowlines, 6 Beacon St., Boston, Mass., $1,889, 925; from Arundel Corp. & Vang Constr. Co., Pier 2, Pratt St., Liberty Trust Bldg., Baltimore, Md., $1,895,672; from Triest Contg. Corp., 247 Park Ave., New York City, $1,979,031 and from Missouri Valley Bridge & Iron Co., 4th and Walnut Sts., Leavenworth, Kan., $2,025,905. Engrs. est. $2,145,535. Noted May 6.

Tex., Decatur—See "Streets and Roads."

Tex., Henderson — See "Streets and Roads."

Contracts Awarded

Maine—State Hy. Dept., Augusta, substructure steel truss double deck highway bridge over Kennebec River in Bath and Woolwich, to Foundation Co., 120 Liberty St., New York City, N. Y., $1,068,940; and steel, to McClintic-Marshall Co., Oliver Bldg., Pittsburgh, Pa., $1,480,000. Noted May 20.

Vt., Arlington — Town, Clerk's Office, Town Hall, 1 span steel and concrete bridge on site of Water St. Bridge, to M. J. Burrington, Bennington. Engrs. est. $25,000. Noted May 6.

N. Y., Lockport—New York Central R.R. Co., Grand Central Terminal, New York City, strengthening bridge, here, to Jobson Gifford Co., 44th St. and Lexington Ave., New York City, $50,000.

Pa., Woodland—New York Central R.R. Co., 466 Lexington Ave., New York City, N. Y., G. W. Kittredge, ch. engr., reconstructing bridge, here, to Jolson-Gifford Co., 441 Lexington Ave., New York City, N. Y., $80,000.

Mississippi—See "Streets and Roads."

Miss., Friar Point — Coahoma Co. will build 258 ft. bridge over Sunflower River on New Africa Rd., 55,000 ft. timber, 31,000 ft. piling, etc.; 150 ft. bridge 1 mi. west of Farrell, 32,000 ft. timber and 1,760 ft. piling; and bridge over canal, 1 mi. north of Coahoma, 16,000 ft. timber, 600 ft. piling, etc., by day labor.

Ia., Grundy Center — See "Streets and Roads."

Ia., Marengo—Marengo Co., 96 x 20 ft. pony truss bridge with two 40 x 20 ft. I-beam approaches on each end, to M. O. Burnett, Marengo, $28,410. Noted Apr. 8.

Tex., Abilene—See "Streets and Roads."

Tex., Boston—See "Streets and Roads."

Tex., Cameron—See "Streets and Roads."

Washington—See "Streets and Roads."

California—State Hy. Comn., Sacramento, **(e. e. means engineers estimate)**, 180 ft. open spandrel arch and four 32 ft. girder approach span rein.-con. bridge over Smith River, near Adams Station, Del Norte Co., to Smith Bros., Eureka, $39,274, e. e. $39,195; 132 ft. 6 ft. rein.-con. box culvert, on Sta. 432-50, one 60 ft. and six 30 ft. span, rein.-con. girder bridge, 24 ft., etc., Sta. 489-78, three 54 ft. and four 26 ft. span rein.-con. bridge, 24 ft., Sta. 513-56, Monterey Co., to Granite Constr. Co., Watsonville, $74,883, e. e. $75,166; 67 ft. skewed truss span timber bridge on pile bents across Brawley Main Canal, 19 ft. span timber bridge on pile bents across Lowline Canal, and eleven 19 ft. span timber bridge across Alamo River, Imperial Co., to W. M. Ledbetter & Co., Alhambra Rd., Los Angeles, $17,355, e. e. $18,004. Grand total $131,512. Noted Apr. 22 and May 13.

Dams

Proposed Work

Wis., Shawano — Wisconsin Power & Light Co., H. N. Carroll St., Madison, making plans rein.-con. dam on Wolf River, near here. $25,000. Power Eng. Co., 621 Metropolitan Life Bldg., Minneapolis, Minn., engr.

Ont., Hanover—Canada Cement Co., 273 Craig W, Montreal, plans repairing dam on Saugeen River, here, damaged by floods. $50,000-$100,000.

Contracts Awarded

N. C., Albermarle—Carolina Power & Light Co., Raleigh, 100,000 hp. dam on Peedee River, to Hardaway Contg. Co., Columbus, Ga. Total incl. land, dam, power house, hydro-electric plant, etc., $8,000,000.

PLUS UPKEEP

THE cost of any hard-surfaced road is the sum of the first cost and interest on the bonds, *PLUS the upkeep.* If you can dodge the need for continuous upkeep, road costs become insignificant.

There are plenty of roads in various parts of the United States which have given 20, 25, 30 and 35 years of service and have not required the attention of a road gang even an average of once a year. Continuous maintenance is unknown to them. These roads are *surfaced with vitrified brick.*

These brick roads are slightly higher in "first cost" than "cheaper" substitutes but they have since saved that difference ten or fifteen times over in freedom from repairs.

To prove the truth of these statements we would like to send you free some actual figures on paving costs and maintenance taken from public records. Write for a complete presentation of the economy of vitrified brick pavements—*the pavements that outlast the bonds.*

VITRIFIED Brick PAVEMENTS

Alton Brick Company
Alton, Ill.
Binghamton Brick Company
Binghamton, N. Y.
Central Clay Products Co.
(Distributors MACK Paving Brick)
Wilkes-Barre, Pa.
Cleveland Brick & Clay Company
Cleveland, Ohio
Clydesdale Brick & Stone Co.
Pittsburgh, Pa.
Coffeyville Vitrified Brick & Tile Co.
Coffeyville, Kans.
Collinwood Shale Brick Company
Cleveland, Ohio
Francis Vitric Brick Company
Boynton, Okla.
Georgia Vitrified Brick & Clay Co.
Augusta, Ga.
Globe Brick Company
East Liverpool, Ohio
Hisylvania Coal Co.
Columbus, Ohio
Hocking Valley Brick Company
Columbus, Ohio
Independence Paving Brick Co.
Independence, Kans.
Metropolis Paving Brick Co.
Pittsburg, Kansas
Metropolitan Paving Brick Co.
Canton, Ohio
Mineral Wells Brick Co.
Mineral Wells, Texas
Moberly Paving Brick Company
Moberly, Mo.
Murphysboro Paving Brick Co.
Murphysboro, Ill.
Nelsonville Brick Co.
Nelsonville, Ohio
Peebles Paving Brick Company
Portsmouth, Ohio
Purington Paving Brick Company
Galesburg, Ill.
Southern Clay Mfg. Company
Chattanooga, Tenn.
Springfield Paving Brick Company
Springfield, Ill.
Sterling Brick Company
Olean, N. Y.
Streator Clay Mfg. Company
Streator, Ill.
Thornton Fire Brick Co.
Clarksburg, W. Va.
Thurber Brick Company
Ft. Worth, Texas
Toronto Fire Clay Company
Toronto, Ohio
Trinidad Brick & Tile Company
Trinidad, Colo.
Veedersburg Paver Company
Veedersburg, Ind.
Western Shale Products Company
Fort Scott, Kans.
Westport Paving Brick Company
Baltimore, Md.

OUTLAST THE BONDS

NATIONAL PAVING BRICK MANUFACTURERS ASSOCIATION, ENGINEERS BLDG., CLEVELAND, OHIO

Excavation, Drainage, Irrigation, Levees, River and Harbor

Proposed Work

Mass., Barnstable—Oyster & Harbor, Inc. plans dredging in West Bay and depositing material in tide water along Grand Sound. $25,000. Private plans.

Mass., Boston—Metropolitan Dist. Comn., 1 Ashburton Pl., plans filling in Dorchester Bay and Bridge from Savin Hill Ave. to Commercial Point-Portion of Old Colony Parkway. $25,000. J. R. Rablin, city engr.

Ill., East St. Louis—East Side Levee & Sanitary Dist., 225 Collinsville St., making preliminary plans cleaning out Cahokia Creek and repairing drainage ditches in area west of Edwardsville. $15,000 or more.

Ia., Maquoketa—Greene Island D. D. 1, Jackson Co., takes bids about July 10, drainage ditches, pumping station, etc. $78,-000. Central States Eng. Co., Muscatine, engr.

Ia., Washington—D. D. 8 and 9, Washington Co., take bids about July 10, drainage ditches, levees, etc. $32,000. Central States Eng. Co., 602 Laurel Bldg., Muscatine, engrs.

Texas—Lamar Co. (Paris) and Delta Co. (Cooper), c/o B. F. Williams, state reclamation engr., Paris, making preliminary plans 14,000 acre drainage district along North Sulphur River. $210,000.

Tex., Brownsville—Cameron Co. Water Impvt. Dist. 5, making preliminary plans drainage system reclaiming approximately 23,000 acres for cotton, citrus fruits, etc. $1,000,000. C. P. Williams, Brownsville, consult. engr.

Tex., San Antonio — E. Goeth & associates, c/o Corpus Christi Rd., plans irrigating 277 acres in Bexar Co., pumping from Medina and San Antonio Rivers. $75,-000. Private plans.

Calif., Niland—Niland Water Dist. making plans 90 mi. new and repairing old canals. To exceed $100,000. T. H. King, 920 8th St., San Diego, engr.

Bids Desired

Fla., Clewiston — June 15, by K. B. Watkins, secy. Sugarland D. D., constructing rein.-con. water controls, 37,100 lb. reinforcing, 1,900 lin.ft. wood sheet piling, etc. Elliott & Harmon Eng. Co., 807 McCall Bldg., Memphis, Tenn., engrs.

Bids Received

Ia., Onawa—Monona Co., May 11, Oliver Lake D. D. ½ mi. open ditch incl. 201,623 cu.yd. excav., 3,808 ft. 19- to 36-in. corrugated pipe, furnished and placed, 1 head wall and hand operated gate, etc., from F. Grundon, Ft. Dodge, $25,098. Noted May 13.

Contracts Awarded

N. Y., New York—New York Central R.R. Co., Grand Central Terminal, dredging in Hudson and Harlem Rivers, to H. DuBois Sons Co., 17 State St., $35,000.

Calif., Grass Valley — Nevada Irrigation Dist., constructing conduit from end of project known as Sect. 10 to Lake Spaulding conduit, 12,700 lin.ft. metal flume, etc., Contr. 9, to Jasper-Stacy Co., 216 Pine St., San Francisco, $320,938 and $98,684 respectively; also furnishing metal flume, gates and hoists, to California Corrugated Culvert Co., 5th and Parker Sts., Berkeley, $78,229. Grand total $497,850. Noted May 20.

Ontario—L. E. O'Brien, secy. Dept. Pub. Wks., Ottawa, dredging in Port Arthur and Fort William harbors, to Great Lakes Dredging Co., Port Arthur. Engrs. est. $700,000.

B. C., Vancouver — Georgia Hotel Ltd., Standard Bank Bldg., excavation for new hotel, to Northern Constr. Co., Ltd., 736 Granville St., $15,000. Noted Mar. 25 under "Buildings—Commercial."

B. C., Victoria — Anglican Church Bd., excavating and foundation for new cathedral, to Parfitt Bros., Ltd., 1303 Gladstone Rd., $50,000. Noted Dec. 17 under "Buildings—Educational, Religious."

Streets and Roads

Proposed Work

Mass., Dorchester (Boston P. O.)—Dept. Pub. Wks., Boston, plans laying out and constructing courtland Rd. as highway from Harvard to Morton Sts., here. $25,000 or more. J. H. Sullivan, comr.

Conn., Farmington—Town and State Hy. Dept., Hartford, plan improving Farmington Bristol Rd.-Scott's Swamp. $120,000. Town appropriated $30,000 towards cost. J. A. Macdonald, Hartford, highway engr.

New Jersey—State Hy. Comn., Trenton, plans concrete paving 1.6 mi. road from Pensauken Creek to Crescent Route, Burlington and Camden Counties. $80,000. W. G. Sloan, Trenton, highway engr.

Pa., Pittsburgh—Voted $6,127,000 bonds, improving and extending various streets.

W. Va., Fairmont—Union Dist. Marion Co. voted $100,000 bonds, improving roads. B. H. Palmer, Fairmont, engr. Noted Apr. 22.

W. Va., Lewisburg — Lewisburg Dist. voted $127,000 bonds, improving roads. J. K. Monroe, Lewisburg, engr. Noted Apr. 22.

W. Va., Richwood — Election June 1, $78,000 bonds improving various streets. W. D. McClunk, recdr.

North Carolina—State Hy. Dept., Raleigh, plans clearing, grubbing and grading, etc. 3.96 mi. Project 843, McDowell Co. $32,000, 13.06 mi. Project 834, Henderson Co. $95,000, 11.52 mi. Project 480, Wake Co. $55,-000, 9.71 mi. Project 279, Sampson Co. $58,-000, 4.14 mi. Project 116, Chowan Co. $28,-000, 14.22 mi. Project 109, Bertie Co. $91,000 and 11.55 mi. Project 993, Transylvania Co. $78,000; grading and sand asphalt paving, etc. 7.21 mi. Project 681, Scotland Co., $198,000; grading and concrete or asphalt paving 10 mi. Project 542, Guilford Co. $420,000 and 6.86 mi. Project 698, Union Co. $189,000; also grading and topsoiling 5.99 mi. Project 142, Halifax Co. $38,500 and 15.8 mi. Project 584, Randolph Co. $115,000. C. M. Upham, highway engr.

N. C., Mt. Airy — Plans paving Hines, Taylor, Orchard and Willow Sts. $100,000.

Ga., Metter—Candler Co. voted $125,000 bonds, improving roads.

Ga., Thunderbolt—Election soon $50,000 bonds, paving and sewers in various streets. O. E. Bryan, mayor.

Ga., Rome—Plans paving 8 streets. $30,-000.

Fla., Tampa—Plans 2½ in. asphaltic block or vitr. brick on rock or shell paving 22nd St. from Hillborough to Sligh Aves $76,693, 22nd St. from Chelsea St. to Hillsborough Ave. $61,530, 22nd St. from 26th Ave. to Chelsea St. $61,539, Sligh Ave. from 22nd to 20th Sts. $32,750 and Sligh Ave. from 15th to 22nd Sts. $46,767; also curbing and 3 in. vitr. brick on 6 in. shell paving Plymouth St. from North Blvd. to Kimmon Ave. $47,319, Davis St. from North Blvd. to Kinnion Ave. $47,319 and Sligh Ave. from North Blvd. to Hillsboro Rd. $136,-050. R. D. Martin, City Hall, engr.

Ala., Sheffield — Takes bids probably in July asphaltic concrete paving various streets. $150,000.

Miss., Shelby—Making preliminary plans grading, curbing, and concrete paving 1.25 mi. state highway through city, 18 ft. H. C. Dietzer, Jackson, engr.

Miss., Vicksburg — Warren Co. making preliminary plans grading, and gravel surfacing 25 mi. various secondary highways. E. J. Tucker, Bonelli Bldg., engr.

La., New Orleans — City Council soon takes bids alternate paving 2 mi. Fitzer Ave. from Texas Ave. to city limits. $70,000.

Tennessee — State Dept. Pub. Wks. & Buildings, Div. Highways, Springfield, soon takes bids probably concrete paving 4.5 mi. Dyer-Rutherford Rd., and 15 mi. Dyer-Weakley Co. line Rd., both Gibson Co.; also 4 mi. Millington-Covington Rd., Shelby Co.; and oiling 25 mi. Tullahoma-Cowan Rd., Coffee and Franklin Counties. C. N. Bass, comr.

Tennessee—State Dept. Highways & Pub. Wks., Nashville, making surveys improving 10 mi. Erwin-Johnson City Rd., Unicoi Co. C. N. Bass, comr.

Tenn., Nashville—Plans oiling and gravel surfacing Hancock, Arrington, North 3rd, Trentland and Pennock Sts., 15th, Grand and Gaitland Aves. To exceed $25,000. Work will probably be done by city forces. W. W. Southgate, city engr.

Tenn., Nashville — Bd. Pub. Wks. plans concrete curbing, guttering and paving 8th Ave. from Church to Broad Sts. W. W. Southgate, City Hall, engr.

Tenn., Oneida — Voted $45,000 bonds, paving various streets.

Kentucky—State Hy. Dept., Frankfort, rejected bids May 10, high type surfacing 4.495 mi. Harlan-Pineville Rd., Federal Aid Project 151-A, Harlan Co., and 10.186 mi. Sect. B same road; also 11.494 mi. Sect. C same road, Bell Co. E. N. Todd, highway engr. Noted Apr. 22.

Ind., Evansville—Vanderburgh Co. plans grading and asphaltic penetration on macadam surfacing 3 mi. Weinbach-Keck Rd. To exceed $25,000.

Ind., Indianapolis—Plans paving Bicking and Delaware Sts., $25,084; sidewalks and paving Sturm, Manker, Agnes and 18th Sts., $27,015; sidewalks, curbing and paving Walnut St. from Bright to Wilson Sts. $51,652, and North and Abbott Sts. $26,-250. G. G. Schmidt, City Hall, engr.

Mich., Caro — Tuscola Co. takes bids about July 15, concrete paving 1 mi. T. L. 38-8, 3 mi. T. L. 81-8, 4 mi. T. L. 31-20 and 1 mi. T. L. 46-33. E. R. Benkert, Port Huron, engr.

Mich., Detroit—Made plans 3½ in. sheet asphalt paving 4,380 sq.yd. Brentwood Ave. $17,560, 21,600 sq.yd. Charles Ave. $86,300, 10,200 sq.yd. Kenney Ave. $40,710, 1,790 sq.yd. Mt. Clemens Dr. $7,140 8,370 sq.yd. LaBelle Ave. $33,500, 2,460 sq.yd. Tuller Ave. $9,870, 1,060 sq.yd. Bryden Ave. $4,230, 4,340 sq.yd. Gouldburn Ave. $17,330, 970 sq.yd. McPherson Ave. $3,870, 17,450 sq.yd. Petoskey Ave. $69,900, 8,840 sq.yd. Parkgrove Ave. $35,300, and 18,100 sq.yd. Promenade Ave. $72,280. P. A. Fellows, City Hall, engr.

Mich., Wyandotte—Making plans grading, concrete curbing and concrete paving 13 streets. Hubbell, Hartgering & Roth, 2640 Buhl Bldg., Detroit, engrs.

Ill., Cairo—Soon takes bids grading, and 1 in. compact rock asphalt on 6 in. gravel paving, etc. 40,000 sq.yd. streets in Dists. 4 and 5, $112,000; also plans rock asphalt resurfacing 7th and 11th St., 8,500; and "White Way" lighting system on Commercial and Ohio Aves., 2nd and other streets, incl. 97 ornamental iron standards and 400 cp. lights, globes, etc., $21,237. G. F. Dewey, City Hall, engr.

Ill., Mt. Vernon — Making preliminary plans grading, curbing and concrete paving various streets. $85,000. C. H. Hammond, City Hall and P. B. Wilson, 1st Natl. Bank Bldg., Marion, engrs.

Wis., Whitewater—C. Inman, city clk., making plans concrete paving Center Ave. between 3rd St. and Summit Ave. $25,000. Engineer not selected.

Ia., Centerville—Making plans sheet asphalt, 7 in. rein.-con. or Warrenite bitulithic paving various streets. To exceed $25,000. M. G. Hall, Centerville, engr.

Ia., Waterloo—Making preliminary plans grading, curbing and asphalt paving 8,000 sq.yd. various streets. $100,000.

Minn., Moorhead—Plans paving, etc., 10 blocks various streets. $45,000. R. G. Price, city clk.

Kan., Lawrence — Douglas Co. making plans bituminous macadam, concrete or brick on concrete surfacing 4.997 mi. Midland Trail. E. E. Trueblood, Lawrence, co. engr.

Kan., Phillipsburg — Making plans vitr. brick paving various streets. To exceed $25,000. Haskins & Crawford, 822 Finance Bldg., Kansas City, Mo., engrs.

Kan., Independence — Montgomery Co. plans grading, and concrete or brick paving, etc. 2.001 mi. Federal Aid Project 199-A, and 2.81 mi. Federal Aid Project 199-B, both 18 ft. H. K. Hibbard, Independence, co. engr.

Neb., Humboldt — Making plans paving various streets. To exceed $25,000 Grant, Fulton & Letton, 525 South 13th St., Lincoln, engrs.

N. D., Fargo — Making plans concrete, asphaltic concrete and brick paving 30,000 sq.yd. various streets. $100,000. R. T. Jacobson, city engr.

N. D., Minot — Plans paving 54 blocks various streets. $276,000. W. W. Peterson, city engr.

Mo., Aurora—Plans concrete paving 25,-000 sq.yd. various streets. Black & Veatch, 700 Mutual Bldg., Kansas City, engrs.

Mo., Canton—Voted $25,000 bonds, curbing, guttering, lighting system and paving 10 blocks various streets. Total $75,000. W. B. Rollins & Co., 521 Ry. Exch. Bldg., Kansas City, engrs. Noted Apr. 29.

Mo., Charleston—Mississippi Co. making preliminary plans grading, concrete paving, etc., 10 mi. Bertrand-Dogwood Special Rd. Dist. P. A. Tenner, Court House, co. engr.

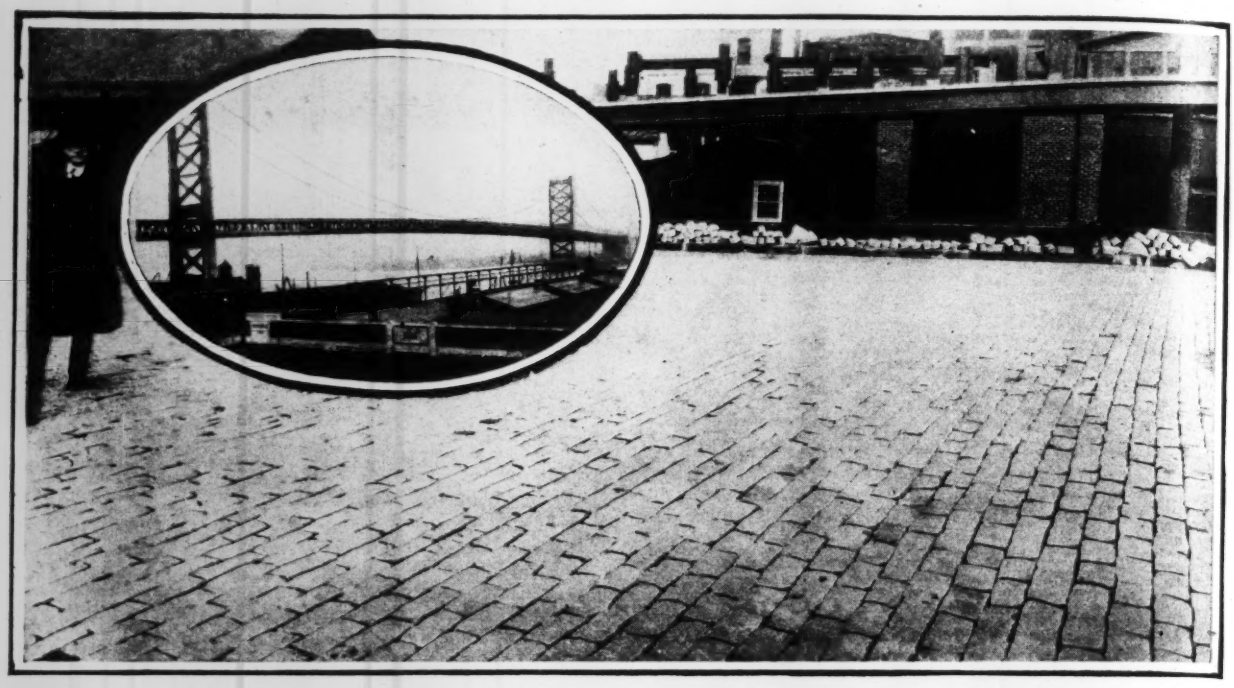
Mo., Hamilton—Making preliminary plans grading, and 6 in. rein.-con. paving, etc. 6,000 sq.yd. various streets. J. E. Rider, Richmond, engr.

Mo., Joplin — Making preliminary plans grading, curbing and Class "G" macadam paving Park Ave. between 4th and Central Sts.; bituminous macadam paving Virginia St. between 15th and 24th St.; and Warrenite bitulithic paving Pennsylvania Ave. between 12th and 26th Sts. S. P. Ashcraft, Jr., City Hall, engr.

Mo., Kirksville—Soon takes bids grading, and brick on concrete paving, etc., 5,000 sq.yd. Elson St.

Mo., Lee Summit—Takes bids in June, 7 in. concrete paving various streets. $33,-000. E. T. Archer & Co., 609 New England Bank Bldg., Kansas City, engrs.

Arkansas—State Hy. Dept., Little Rock, making preliminary plans grading and con-



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Streets and Roads (Continued)

crete surfacing 1.75 mi. road from Hot Springs city limits south (Garland Co. Road Impvt. Dist. 8), 18 ft., Garland Co. R. C. Limerick, highway engr.

Ark., Hot Springs—Soon takes bids grading, curbing and paving streets in Paving Dist. 94. $31,953. G. C. Smith, City Hall, engr.

Ark., Hot Springs—Making preliminary plans grading and paving streets in Dist. 89; also grading, curbing and guttering streets in Dist. 82. $25,000. G. C. Smith, City Hall, engr.

Tex., Brackettville—Kinney Co., election July 10, $150,000 bonds, constructing various roads. J. H. Stadler, co. judge.

Tex., Carthage—Panola Co. making plans and soon takes bids grading and bridging 4 mi. Highway 43, 26 ft. $26,000. D. E. Martin, Carthage, co. engr.

Tex., Cold Springs — San Jacinto Co. making plans grading, bridging and gravel surfacing 5.87 mi. State Highway 35, 18 ft. $130,000. J. R. Spiller, Cold Springs, co. engr.

Tex., Laredo—Webb Co. making plans 3-in. asphalt macadam on caliche gravel paving 13.246 mi. Highway 12-A, 18 ft. $181,572.

Tex., Luling—Plans hard paving 9 blocks various streets, 35 ft. $60,000. Address C. T. Greenwood, mayor.

Tex., Sanderson — Terrell Co. making plans grading, bridging and gravel surfacing 7.42 mi. Highway 3, 18 ft. $68,700. J. Stovell, Sanderson, co. engr.

Tex., Sherman—Election June 15, $100,000 bonds, rein.-con. paving various streets. O. J. S. Ellingson, city mgr.

Tex., Wichita Falls — Election June 5, $150,000 bonds permanent paving various streets. F. M. Rugley, Wichita Falls, engr.

Oklahoma — State Hy. Dept., Oklahoma City, making surveys grading, etc., 10 mi. Pawhuska-Burbank-Ponca Rd., 30 ft. $44,000. J. M. Page, highway engr.

Okla., Lawton—Plans concrete widening 7,260 sq.yd. Ft. Sill Blvd. $28,410. G. C. Dale, Lawton, engr.

Okla., Lindsay—Plans grading and gravel surfacing 42,600 sq.yd. Cherokee, Chickasaw and Kiowa Sts. $31,200. J. W. Cates, mayor. Engineer not selected.

Okla., Oklahoma City — Plans widening and raising South Robinson Ave. from Reno St. to Belt line R.R. tracks. $175,000. B. M. Hart, City Hall, engr.

Calif., Fresno—Fresno Co. making plans constructing Los Gatos Rd. To exceed $35,000. C. P. Jensen, Fresno, co. surv.

Calif., Los Angeles—City Harbor Comn. made plans resurfacing, Warrenite-bitulithic wearing surface 500,000 sq.ft. Budger Ave. and Dock St. J. C. Shaw, City Hall, engr.

Calif., Martinez—Making plans improving Sanford, Wilcox Aves., etc., 6,719 cu. yd. excav., 883 cu.yd. fill, 159,858 sq.ft. 6 in. oil macadam paving, etc. $40,000 or more. E. A. Hoffman, City Hall, Richmond, engr.

Calif., North Sacramento—Making plans grading and 5 in. asphaltic concrete paving, etc., 265,000 sq.ft. Del Paso Blvd. J. N. Bidwell, city engr.

Calif., Redding—Shasta Co. making surveys constructing Igo-Arbuckle Mt. and Pine Grove-Shingletown Rd. To exceed $25,000.

Calif., San Diego—Common Council plans improving C and 28th Sts., 29,400 sq.ft. 2 in. on 3 in. asphaltic concrete and 153,014 sq.ft. 5 in. concrete paving, 590 lin.ft. concrete curbing, 300 sq.ft. concrete sidewalk, etc. F. A. Rhodes, city engr.

Calif., San Francisco—Made plans grading, curbing, walks, etc., on Peralta Ave. between York and Holloday Aves., and Tomasa St. between Peralta and Montcalm Sts., $25,000; also curbing, sidewalks and concrete paving 21,865 sq.ft. Elizabeth St., etc. M. M. O'Shaughnessy, city engr.

Calif., Santa Cruz—Santa Cruz Co. made plans grading and concrete paving 1,160 cu. yd. road fronting Santa Cruz Portland Cement property on Coast Rd. L. Bosman, Santa Cruz, co. surv.

Calif., Stockton—Making plans grading, curbing, guttering, walks, 1½ in. Warrenite-bitulithic on 3½ in. asphaltic concrete and cement gravel surfacing 138,599 sq.ft. Pacific Ave. W. B. Hogan, city engr.

Calif., Tracy — Made plans improving various streets, 111,457 sq.ft. each grading, and 1½ in. Willite ashaltic concrete on 3½ in. asphaltic concrete paving, etc. To exceed $25,000. E. C. Finley, city engr.

Ont., Brantford—Council plans concrete paving William and Albion Sts. $35,000. F. P. Adams, City Hall, engr.

Ont., Preston—City council plans concrete paving various streets. $30,000. G. Wurster, City Hall, engr.

Ont., St. Catherines—Plans asphaltic concrete on concrete paving 8,500 sq.yd. Louisa St. $32,630. B. F. Lamson, City Hall, engr.

Ont., St. Catharines—Making plans asphaltic concrete on concrete paving St. Paul St., $23,980; and asphalt surfacing Church St. Total $27,625. B. F. Lamson, City Hall, engr. Noted Apr. 22.

Ont., Stratford — Perth Co. plans macadam paving various roads, etc. $75,000. J. Roger, Mitchell, engr.

Ont., Sudbury—Council plans macadam paving Elm and Station Sts. $35,000, and concrete sidewalks $20,000. W. J. Ross, City Hall. engr.

Ont., Toronto—York Twp. making plans asphalt or asphaltic concrete paving 550 ft. Blackthorn Ave., $7,829; and 1,250 ft. Cherrywood Ave., $19,146; both 24 ft. F. B. Goedike, 40 Jarvis St., engr. Noted Apr. 1.

Ont., Toronto — East York Twp. plans concrete guttering, concrete curbing and paving 475 ft. Fulton Ave., 28 ft.; and probably asphalt paving 3,700 ft. Cosburn Ave., 16 ft., $54,270. G. R. Jack, 443 Sammon Ave., engr.

Ont., Toronto — East York Twp. plans guttering and asphalt paving 3,585 ft. Woodbine Ave., 28 ft. $71,700. G. R. Jack, 443 Sammon Ave., engr.

Ont., Toronto—York Twp. plans guttering and asphalt on concrete paving 2,100 ft. St. Johns Rd., 28 ft. $40,551. F. B. Goedike, 40 Jarvis St., engr.

Ont., Toronto — York Twp. plans brick block guttering and bituminous concrete on concrete paving 770 ft. Conway Ave. $10,481, 660 ft. Blandford Ave. $9,776, and 660 ft. Rockvale Ave. $9,492, all 24 ft. F. B. Goedike, 40 Jarvis St., engr.

Man., Winnipeg—City Council plans new paving and stone sidewalks on various streets. $250,000 each.

Bids Desired

N. Y., Long Island City—May 28, by M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., grading and granite block repaving Meadow St.; sheet asphalt repaving Woolsey St., Ditmas and Cooper Aves.; grading, curbing and sidewalks from Van Dam to Hulst Sts., and permanent paving Van Dam St.

N. Y., New York—June 3, by H. Bruckner, pres. Bronx Boro, Crotona Park, 3rd and Tremont Aves., granite block on concrete paving Boston Rd.; and grading, culverts, etc. in Wilson Ave., East 211th and West 263rd Sts.

N. Y., St. George — June 1, by J. A. Lynch, pres. Richmond Boro, Boro Hall, granite block repaving 2 ft. wide, outside and adjoining trolley tracks on Van Duzer St. from Victory Blvd. to Hannah St., and from Swan to Wright Sts.

N. Y., White Plains—June 4, at office F. L. Merritt, clk. Bd. Supervs. Westchester Co., Court House, rein.-con. paving roads in Pleasantville, Briarcliff Manor, Yonkers, and here; adv. E. N.-R. May 27.

N. J., Freehold—June 9, by Bd. Freeholders Monmouth Co., rein.-con. paving center strip Keyport-Matawan Rd. 64; and sheet or rock asphalt paving Front St., Red Bank, Rd. 49, and center strip from Red Bank to Rumson, Rd. 48. G. K. Allen, Jr., 60 Broad St., Red Bank, co. engr.; adv. E. N.-R. May 27.

N. J., Summit—June 1, by Road Com. Union Co., Court House, Elizabeth, grading and rein.-con. paving Morris Ave., River and Chatham Rds. J. L. Bauer, 80 Broad St., Elizabeth, co. engr. Noted Jan. 28.

N. J., Trenton — June 1, by Bd. Freeholders Mercer Co., concrete paving 1,000 ft. Washingtons Crossing-Pennington Rd., $25,000; and 3.5 mi. Yardville-Allentown Rd., $160,000. H. F. Harris, Court House, engr.

N. J., Wildwood—June 16, by Bd. Freeholders Cape May Co., Court House, Cape May, rein.-con. paving 33,596 sq.yd. Wildwood Blvd., here. R. F. Smith, Marmora, co. engr.; adv. E. N.-R. May 27.

Pa., Cross Roads (Felton P. O.)—June 17, by Boro Council, 1 mi. water bound macadam paving road. J. A. Michels, civil engr.; adv. E. N.-R. May 27.

Pa., Curwensville — June 7, by Boro Council, J. A. Dale, secy., concrete paving, etc., approximately 1 mi. State St. $50,000. R. E. Hess, chn. Street Com.

Pa., Felton—June 17, by Boro Council, water bound macadam paving 0.5 mi. various roads. J. A. Michels, civil engr.; adv. E. N.-R. May 27.

Maryland—June 8, by State Rds. Comn., Baltimore, concrete paving 2 mi. Contr. M-64, Montgomery Co., and 2.97 mi. Contr. AA-43, Anne Arundel Co. graveling 0.76 mi. Contr. P-61, Prince George Co., 3.75 mi. Contr. Ch-38 Charles Co., and 2 mi. Contr. Ch-39 Charles Co. J. N. Mackall, chn.; adv. E. N.-R. May 27.

Md., Baltimore—June 2, by Bd. Awards, sheet asphalt paving 22,000 sq.yd. Contr. 341, and concrete paving 11,000 sq.yd. Contr. 342. S. Purcell, City Hall, engr.

Virginia—June 8, by State Hy. Comn., Richmond, concrete and bituminous macadam paving roads on Projects S-204, S-217-B, S-273-A, S-344-C, S-434-A; and bridge on Project S-420-B; adv. E. N.-R. May 27.

W. Va., Moundsville—June 14, at office of L. L. Stidger, city clk., City Bldg., 6th St., curbing and brick, block, concrete or asphalt paving Water St. from 14th to 16th Sts., 14th St. from Water St. to Purdy Ave., 5th St. from Grant to Cedar Aves., 2nd St. from Ash to Cedar Aves., Long Center St. from Ash to Cedar Aves., Morton Ave. from 3rd to 5th Sts., and Birch Ave. from 2nd to 3rd Sts. Noted Apr. 29.

Ga., Adel—June 4, by City, J. J. Parish, mayor, grading, curbing, guttering and 6 in. concrete, sheet asphalt, asphaltic concrete, penetration macadam or brick on sand paving, etc., 25,000 sq.yd. various streets. J. B. McCrary Eng. Corp., Citizens Southern Bldg., Atlanta, engrs.

Miss., Tunica — June 7, by City, gravel surfacing 5 mi. roads in Dundee Special Road Dist. Southern Eng. Co., Clarksdale, engr.

Miss., Woodville.— June 15, by Bd. Supervs. Wilkinson Co., gravel surfacing 8 mi. scenic highway along Mississippi River between Woodville and Louisiana state line. $68,895. Work will be done under supervision State Hy. Dept., Jackson. Noted Mar. 12.

La., Homer—Taking bids grading, curbing, guttering, sidewalks, etc. and 6 in. rein.-con. paving 12,230 sq.yd. various streets. C. D. Evans, Levy Bldg., Shreveport, engr.

Tennessee—June 11, by State Dept. Highways & Pub. Wks., Nashville, grading, bridging, paving, etc. roads in 25 counties. To exceed $2,000,000. C. N. Bass, comr.; adv. E. N.-R. May 27.

Tenn., Nashville — See "Contracts Awarded."

O., Akron — June 4, by Comrs. Summit Co., grading, bituminous or rein.-con. paving 36,800 sq.yd. South Main St. 50D, $154,000. H. G. Sours, Court House, engr.

O., Cincinnati—June 4, by Comrs. Hamilton Co., widening and tar bound macadam repaving 10,100 ft. Drake Rd. from Indian Hill Rd. to point 3,325 ft. north Shawnee Rd., $36,348; tar surface treating 30 mi. Woodlawn and Western Divs. $25,538, and 30 mi. Eastern and Cheviot Divs. $25,313, all 16 ft. E. A. Gast, Court House, engr. Noted May 13.

O., Cleveland—May 29, by Comrs. Cuyahoga Co., grading, etc., Broad Rd., $13,300, and paving Edgerton Rd. 7, $22,500. F. Lander, Court House, engr.

O., Cleveland—June 2, by Comrs. Cuyahoga Co., paving, etc. Edgerton Rd. 5 from Broadview Rd. to Richfield Rd., $77,600; and Cedar Point Hill Rd. from Columbia Rd. easterly to Rocky River, $36,000. F. Lander, Court House, engr.

O., Lakewood (Cleveland P. O.)—June 1, by City, paving, etc. Adeline, Hilda, Crestline, Northland and Phoenix Aves. To exceed $25,000. E. A. Fisher, City Hall, engr.

Ind., Crown Point—June 8, by Comrs. Lake Co., grading, paving, etc., Oliver Starr et al, gravel road, Calumet Twp., $117,500. W. E. Witaker, aud.

Ind., La Porte—June 7, by Bd. Comrs. La Porte Co., grading and paving, etc., Charles Walker et al Rd., Hudson Twp., $28,292, and Edward Luedtke et al Rd., Center Twp., $54,067. F. A. Hausheer, aud.

Ind., Terre Haute — June 3, by Comrs. Vigo Co., improving D. Russ Wood et al Rd., Harrison Twp. $73,125. J. Dreker, aud.

Mich., Monroe — June 7, by City Clerk, concrete paving 0.593 mi. 50-5 Sect. B. W. W. Lavers, Plymouth, engr.

Illinois—June 9, by Dept. Pub. Wks. & Buildings, Div. Highways, Springfield, concrete vitr. brick, or bituminous concrete with or without binder course paving 1.67 mi. Route 4, Sect. 63, 24 ft., St. Clair and Madison Counties, 0.86 mi. Route 7, Sect. 30-X, 7.19 mi. Route 7, Sect. 30, and 5.06 mi. Route 7, Sect. 31 all 18 ft., La Salle Co., 1.89 mi. Route 8, Sect. 50, 20 ft., and 9.38 mi. Route 8, Sect. 51, 4 ft. Tazewell Co., 2.62 mi. Route 13, Sect. 29, 18 and 20 ft. St. Clair Co., and 1.23 mi. Route 23, Sect. 5, 18 ft. LaSalle Co.; grading 1.06 mi. Route 7, Sect. E, LaSalle Co., 24,885 cu.yd. excav., etc., and 6.15 mi. Route 13, Sect. 28-S, St. Clair Co., 118,966 cu.yd. excav., etc. F. T. Sheets, dir.

Ill., Anna—June 1, by City Clerk, grading, curbing and concrete paving streets in Dists. 6 and 7. $60,000. Taylor & Woltman, Unity Bldg., Bloomington, engrs. Noted Apr. 15.

Ill., Chicago—June 7, by G. A. Quinlan, supt. Highways, Cook Co., County Bldg., concrete paving 2 mi. Burnham Ave. $118,618, 2 mi. Michigan City Rd. $113,365, 1½ mi. 154th St. $88,700, 4 mi. Harlem Ave.

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Streets and Roads (Continued)

$245,660, 3¾ mi. Elmhurst Rd. $221,068, 3 mi. 131st St. $184,964, and 1 mi. Walters-Pingston Ave. $67,347, all 24 ft. wide.

Ill., Du Pue — June 1, by Bd. Local Impvts., at office C. E. Pope, city clk., grading, curbing, guttering, sewers and 8 in. concrete paving 12,156 sq.yd., and 6- to 9-in. concrete paving 2,994 sq.yd. various streets. R. L. Schomberger, Amer. Hotel, Princeton, Ill., engr.

Wisconsin—June 3, by State Hy. Comn., Div. Office 6, 213 South Barstow St., Eau Claire, concrete paving, etc. 4,166 sq.yd. Menomonie-Hudson Rd., Federal Aid Project 370-B, Dunn Co.; concrete paving 1,085 sq.yd. and constructing Wilson Creek Bridge to Red Cedar River connection on same road; also improving 9.716 mi. Marshfield-Neillsville Fairchild Rd., Federal Aid Project 402-A, Clark Co., 102,111 cu.yd. earth excav., 9,090 ft. intercepting ditches, etc. J. T. Donaghey, Madison, ch. engr.

Wisconsin—June 4, by State Hy. Comn., Div. Office 8, 1st. Natl. Bank Bldg., Superior, concrete paving, etc. 53,962 sq.yd. Federal Aid Project 377-B; and crushed graveling, etc. 7,981 cu.yd. Federal Aid Project 408-B, Barron Co., J. T. Donaghey, Madison, ch. engr.

Wis., Fond du Lac — June 3, by J. Hohensee, city clk., various types paving approximately 55,000 sq.yd. 17 streets. G. H. Stanchfield, City Hall, engr. Noted Apr. 22.

Ia., Toledo — May 31, by E. A. Benson, City Hall, grading, curbing and 6 in. gravel, crushed stone, 4 in. asphaltic macadam, 2 in. asphaltic macadam or 6 in. concrete paving 65,286 sq.yd. various streets. $185,000. Former bids rejected. M. Tschirgi & Sons, 712 Amer. Trust Bldg.; Cedar Rapids, engrs. Noted Apr. 29.

Kan., Coldwater — June 10, by Auditor Comanche Co., grading and bridging 4.953 mi. Federal Aid Project 337-A.

Kan., Marysville — June 3, by Auditor Marshall Co., grading and bridging 1.098 mi. Federal Aid Project 182-A; 1,004 mi. Federal Aid Project 183-A; 1 mi. Federal Aid Project 184-A; and 0.417 mi. Federal Aid Project 249-A.

Neb., Falls City—May 31, by M. F. Naylor, city clk., brick or asphalt paving 55 blocks various streets. J. Mullin, city engr.

Wyoming—June 4, by State Hy. Comrs., Cheyenne, **(F. A. P. means Federal Aid Project)**, grading, graveling 7,400 cu.yd. and constructing one 30 ft. concrete span bridge on F.A.P. 161-B, Big Horn Co., $40,800; grading and constructing 38 ft. and 69 ft. timber bridges on 7.4 mi. F.A.P. 188-A, Lincoln Co. $74,842, and 57 ft. steel bridge with 92 ft. pile trestle approach, etc. on 6.148 mi. F.A.P. 189-A, Johnson Co. $56,852; also 9 log bridges on 15 mi. F.A.P. 187, Weston Co., $57,077.

Arkansas—May 31, by State Hy. Dept., Little Rock, **(F. A. P. means Federal Aid Project)**, improving 11.02 mi. Batesville-Heber Springs Rd., F. A. P. 240-B, Independence Co., 12.25 acres grubbing, 17,956 cu.yd. solid rock, 47,850 cu.yd. earth excav., 6,588 cu.yd. borrow, 22,465 sta.yd. overhaul, 34,740 lb. reinforcing, and 6,830 lb. structural steel, etc.; 1.65 mi. Walnut Ridge-Hoxie Rd., F. A. P. 241-A, Lawrence Co., 4,292 cu.yd. excav., 2,540 cu.yd. graveled shoulders, 17,414 sq.yd. concrete surfacing, 1,090 lb. reinforcing, etc.; 10.9 mi. Tuckerman-Alicia Rd., Impvt. Dist. 8, Jackson Co., 11.23 acres grubbing, 74,584 cu.yd. earth excav., 20,567 cu.yd. gravel surfacing, 23,675 cu.yd. overhaul, 39,371 ft. treated timber, etc.; 7.95 mi. Hamburg-Montrose Rd., F. A. P. 231-A, Ashley Co., 14,451 cu.yd. gravel surfacing, etc.; 6.31 mi. Warren-North Rd., F. A. P. 229-A, Bradley Co., 14.8 acres clearing, 7.76 acres grubbing, 69,892 cu.yd. earth excav., 24,922 sta.yd. overhaul, 1,390 ft. treated and 27,475 ft. untreated timber, 18,449 lb. reinforcing, etc.; 5.07 mi. Stuttgart-Slovak Rd., F. A. P. 199-A, Prairie Co., 19,036 cu.yd. earth excav., 6,601 lb. reinforcing, etc.; 4.91 mi. Dermott-Collins Rd., F. A. P. 194-A, Drew Co., 20.83 acres grubbing, 78,173 cu.yd. earth excav., 45,691 ft. treated and 2,500 ft. untreated timber, 6,789 lb. reinforcing, etc.; also one 210 ft. and one 150 ft. rein.-con. girder bridges over Holman Creek, near Huntsville, Madison Co., 71,690 lb. reinforcing, etc., and rein.-con. bridge over Spadra Creek, on F. A. P. 26-A, Clarksville, Johnson Co., 105,150 lb. reinforcing, etc. R. C. Limerick, ch. engr.

Texas — June 15, by State Hy. Dept., Austin, bituminous macadam paving 3.91 mi. Federal Aid Project 113-2 B, Unit 2, $26,000; also 4.85 mi. Highway 2-E, State Aid Project 413-B, Unit 2, $25,000, both 18 ft. A. C. Love, Austin, highway engr. Noted May 13 under "Hillsboro."

Tex., Gonzales — June 15, by State Hy. Dept., Austin, with 4 in. waterbound macadam and 1 in. limestone rock asphalt on sledged stone surfacing 8.084 mi. Highway 81, Federal Aid Project 440-B, Gonzales Co. $150,750. J. G. Irby, Gonzales, engr.

Tex., Groveton—June 5, by J. O. Booker, engr., Groveton, grading and bridging 19.054 mi. Highway 94, State Aid Project 677-A, 18 ft., for Trinity Co. $112,600. Noted Apr. 29.

Tex., Marlin — June 15, by State Hy. Dept., Austin, grading and bridging 5.66 mi. Highway 108, State Aid Project 67-B, 18 ft. $46,000. B. B. Harris, Rosebud, engr. Noted Mar. 18.

Tex., Seymour — June 11, by N. G. Mitchell, judge Baylor Co., rein.-con. paving 8,659 sq.yd. Highway 30, State Aid Project 564, Unit 2, $26,300; and 65,753 sq. yd. Highway 24, Federal Aid Project 455-A, $225,280. J. G. Rollins, resident engr.

Okla., Muskogee—June 10, 7 in. concrete paving 25,500 sq.yd. various streets. $90,000. J. R. March, Muskogee, engr. Noted Apr. 29.

California—June 7, by State Hy. Dept., Sacramento, grading, crushed stone or gravel with decomposed granite surfacing 6.5 mi. road between Brawley and West Moreland, Imperial Co.; grading, crushed stone or gravel grading, surfacing 10.8 mi. road between Alturas and Royce Ranch, Modoc Co.; and widening, asphaltic concrete surfacing 1.1 mi. road between Globe Iron Wks. and El Camino Ave., Sacramento Co. R. M. Morton, Forum Bldg., Sacramento, hy. engr.

Calif., Oroville—June 7, by C. F. Belding, clk. Butte Co., improving Oroville-Wyandotte Rd. between Garden Ranch and Wyandotte, 5,670 tons broken stone surfacing, 174 tons Grade "E" asphalt oil. H. H. Hume, Oroville, co. surv.

Calif., Santa Cruz — See "Contracts Awarded."

Ont., Maxville—June 1, by J. Vallance, R. R. 2, loose crushed stone surfacing 5,400 yd. streets.

Bids Received

Mass., Athol—Dept. Pub. Wks., Boston, May 18, bituminous macadam paving 8,429 ft. highway, here, from Kelleher Bros., Turners Falls, $97,234. Noted May 13.

Mass., Lowell—Asphalt paving various streets, from A. Pallotta, Dracut, $50,100.

N. Y., New York — H. Bruckner, pres. Bronx Boro, Crotona Park, 3rd and Tremont Aves., May 20, sheet asphalt concrete paving and repaving East Tremont Ave. from Brusstar Constr. Co., Edgewater Rd. and Stafford Ave., $185,757; curbing, sidewalks, etc., on La Salle Ave., from C. Turiano Contg. Co., 3185 East Tremont Ave., $6,694; grading, curbing and sidewalks on Edison Ave., from A. Gregorio & Co., 1121 Nicol Ave. $18,066, also on Wallace Ave. and grading, inlets, etc., on Paulding Ave., from L. Di Minna, 2366 Lawrence St., $2,529 and $3,598 respectively. Noted May 13.

N. J., Trenton — City Com., May 14, paving 10 streets, from Union Paving Co., 30th and Locust Sts., Phila., Pa., $202,582; and 4 streets, from A. DeLucia, 52 Bayard St., $71,143. Work involves 55,000 sq.yd. asphalt and 7,000 yd. granite block. Noted May 6.

Pennsylvania — State Hy. Dept., Harrisburg, May 20, **(R. means Route and A. means Application)**, one course rein.-con. paving, etc. 8,055 ft. A. 3528, Somerset Co., from M. F. McCabe & Co., 309 Deveny Bldg., Fairmont, W. Va., $61,727; 16,253 ft. A. 2003-A, York Co., and 22,650 ft. A. 2842-2588, Northampton Co., from Souder Constr. Co., 349 Woolworth Bldg., Lancaster, $108,179 and $163,967 respectively; 15,600 ft. R. 214, Sect. 1, Clarion Co., from Russell Bros., Route 5, Youngstown, O., $105,394; 8,203 ft. A. 4009, Westmoreland Co., from J. F. Patterson-Donora Constr. Co., Donora, $72,321; 11,310 ft. R. 75, A. 4040, Butler Co., from Indiana Constr. Co., Indiana, $85,049; 32,736 ft. R. 226-285, A. 3795-3796-4197, Lehigh and Berks Counties, from Johnson Drake & Piper, Inc., 834 1st Natl. Soo Line Bldg., Minneapolis, Minn., $242,381; 52,751 ft. R. 41, A. 3253, Adams and Cumberland Counties, from H. W. Horst Co., Rock Island, Ill., $433,877; and 21,872 ft. R. 337, A. 3700-3015, Indiana Co., from F. D. Ross, 74 High St., Bradford, $159,353. Noted May 13.

Maryland—State Rds. Comn., Baltimore, May 18, concrete paving 1 mi. Contr. F-92, Frederick Co., from M. J. Grove Lime Co., Lime Kiln, $24,921, 1 mi. Contr. B-76, Baltimore Co., from P. Reddington & Sons, 2 East Lexington St., Baltimore, $26,015, 2.5 mi. Contr. O-66, Prince Georges Co., from Christhilf & Ensey Co., 1625 Ridgely St., Baltimore, $70,104, and 1.5 mi. Contr. Co-39, Caroline Co., from P. D. Phillips & Bro., Salisbury, $27,829; macadam resurfacing 1.6 mi. Contr. H-48, and 0.91 mi. Contr. H-38, Harford Co., from T. B. Gatch & Sons, Raspeburg, Baltimore, $21,092 and $17,102 respectviely; also graveling 2 mi. Contr. SM-22, St. Marys Co., from E. R. Jarboe, Mechanicsville, $13,613. Noted May 6.

Md., Baltimore — Bd. Awards, concrete paving footways listed in Footway Contr. 120, from Arundel Contg. Co., Knickerbocker Bldg., $31,836; and sheet asphalt paving 7,400 sq.yd. Contr. 337 from Amer. Paving Co., Montebello Ave., $31,834. Noted May 20.

Md., Baltimore — Comrs. Baltimore Co., concrete paving 1.21 mi. Group 8, from H. T. Campbell & Sons Co., Towson, $41,184. Noted May 20.

O., Akron—W. F. Peters, dir. Pub. Serv., grading, curbing, walks and vitr. brick paving 13,260 sq.yd. Inman St., from T. E. McShaffrey Constr. Co., 173 South Forge St., $79,001. Noted Apr. 29.

Mich., Grand Haven — Bd. Rd. Comrs. Ottawa Co., grading, 6 in. concrete surfacing, etc. 14,667 sq.yd. 3rd Ave. south of Muskegon-Ottawa Co. line, from J. R. Edelman, 498 6th St., Muskegon Heights, $31,750. Engrs. est. $37,000. Noted May 13.

Wis., Milwaukee—Dept. Pub. Wks., R. E. Stoelting, comr., May 15, sheet asphalt resurfacing, etc., 8,573 sq.yd. 2nd Ave., from White Constr. Co., 68 Wisconsin St., $17,529; and asphaltic concrete paving, etc., 8,566 sq.yd. 35th St., from Badger Constr. Co., 97 Wisconsin St., $41,394. Noted May 13.

Ia., Ottumwa—City, May 10, paving 20 blocks various streets, from C. F. Lytle, 504 Nebraska St., Sioux City, 6 in. rein.-con., gravel at $2.05 per sq.yd., and 6 in. rein.-con., limestone at $1.95 per sq.yd.

Idaho — June 5, by Commissioner Pub. Wks., at office Lost River Highway Dist., G. L. Ambrose, atty., Mackay, **(F.A.P. means Federal Aid Project)**, grading, etc. 32,976 cu.yd. F.A.P. 118-B, Custer and Butte Counties; and 20,584 cu.yd. F.A.P. 7-B, Custer Co. A. N. Ashline, Shoshone, dist. engr.

Idaho — June 5, by State Comrs. Pub. Wks., at office Comrs. Franklin Co., Preston, grading, rock or gravel surfacing, etc. 8,411 cu.yd. Federal Aid Project 98. P. E. Wilson, Sonnenkalb, dist. engr.

Tex., Decatur — Wise Co., grading and bridging 7.765 mi. Highway 39, State Aid Project 667, from Tibbets Constr. Co., Joseph Bldg., Ft. Worth, $45,830. Engrs. est. $56,000. Noted Apr. 29.

Tex., Henderson — Rusk Co., grading, bridging, etc., 4.87 mi. Highway 26-A, State Aid Project 653, 26 ft., from Cook & Arrington, Crockett, $29,346. Engrs. est. $30,000. Noted Apr. 15.

Nevada—State Hy. Dept., Carson City, May 12, grading and surfacing 15.15 mi. road from point 7 mi. north of county line to point 5 mi. south of Connors Pass, White Pine Co., from W. Hoops, McGill, $41,131, and 22.48 mi. road from Dutch Johns to point 7 mi. north of county line, Lincoln and White Pine Counties, from Dodge Bros., Inc., Fallon, $60,540; surfacing 6 mi. road from point 6 mi. west of Robinsons Summit to Robinsons Summit, White Pine Co., from J. Ross, Yerington, $22,181, and 5.4 mi. road from west of county line to Virginia City, Storey Co., from J. N. Tedford, Fallon, $19,689. Noted May 6.

California—State Hy. Comn., Sacramento, grading, crushed stone or gravel surfacing 8.5 mi. road between point 2 mi. east of Sportsmans Hall and Riverton, El Dorado Co., from Irey & Holden, Lodi, $51,488. Engrs. est. $51,488. Noted Apr. 29.

Calif., Corona — Grading, curbing, walks and oil macadam paving, etc. 9th St., Belle Ave., etc., from A. T. Ingalls, 1604 West 29th St., Los Angeles, $43,050. Noted May 6.

Calif., Los Angeles—Bd. Pub. Wks., May 10, from W. Liddington, 430 East 60th St., improving Hoover St., 55 lin.ft. curbing at $0.60 per lin.ft., 329 sq.ft. guttering $0.25, 195 sq.ft. sidewalk $0.15, 81,821 sq.ft. 7 in. concrete paving $0.195, etc., total $22,266, engrs. est. $24,257; from Tryant & Brain, 201-2 Tojo Bldg., improving Ventura Blvd., 11,415 sq.ft. sidewalk $0.125, 92,252 sq.ft. 6 in. paving $0.19, etc., total $24,172, engrs. est. $25,946. Noted Apr. 15.

Contracts Awarded

Vermont — Dept. Highways, Montpelier, bituminous macadam paving, etc., 2 mi. Federal Aid Project 82-A in Highgate, to L. Longhi & Son, Torrington, Conn., $73,981, 2.56 mi. Federal Aid Project 72-A in Shelburne, to Frissel & Snyder, $109,689, 1.04 mi. Federal Aid Project 57-D in Guilford-Brattleboro, to Long Cross & Burnham, Greenfield, Mass., $38,356, 3.03 mi. Federal Aid Project 62-B in New Haven, also 3 span and concrete steel bridge and approaches on Federal Aid Project 55-D in Barton, to D. W. Overrocker, Brattleboro, $88,999 and $43,644 respec-

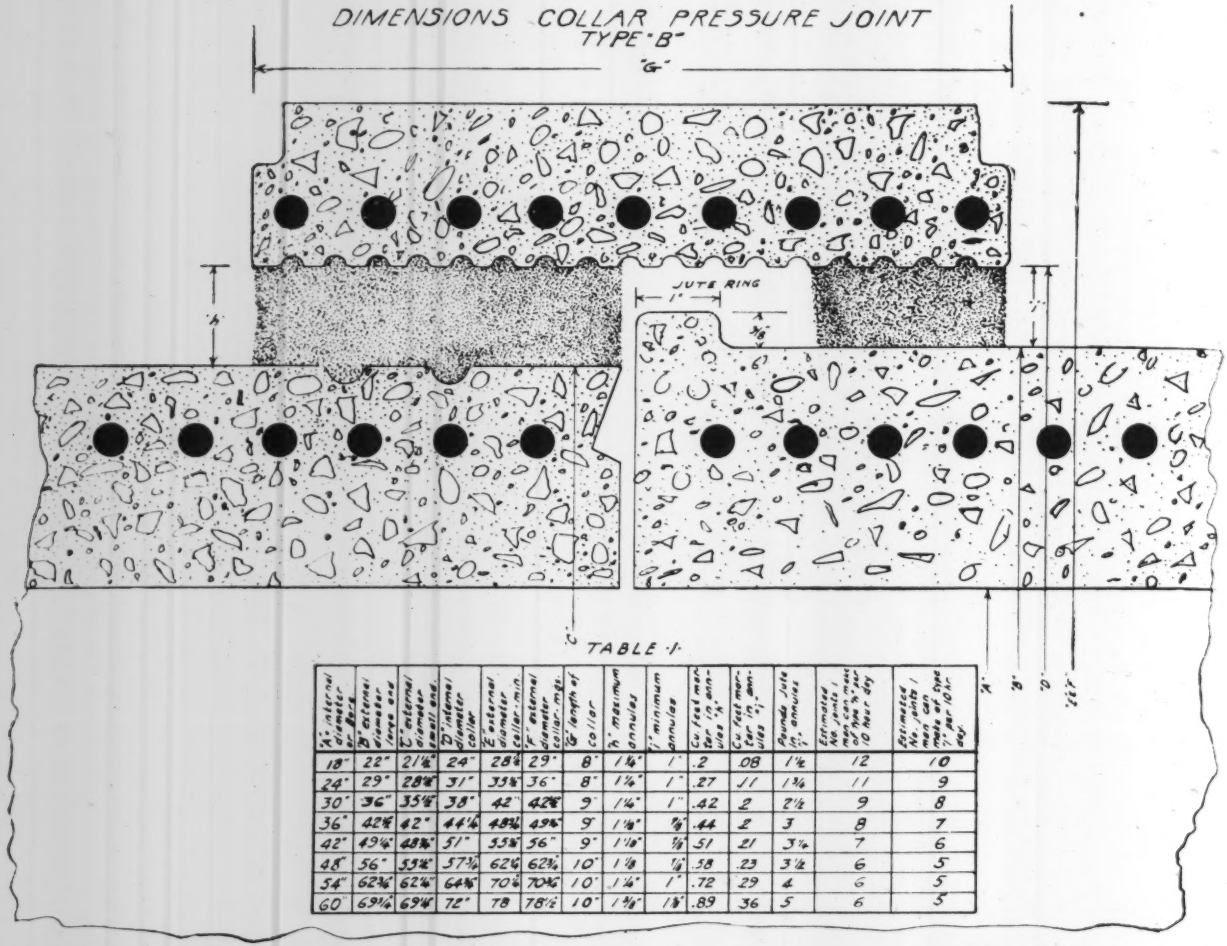

TABLE 1.

A internal diameter of pipe	B external diameter spigot end	C external diameter plain end	D internal diameter collar	E external diameter collar-min.	F external diameter collar-max.	G length of collar	H maximum annulus	I minimum annulus	Cu. feet material per 10 lin. ft. pipe with ½" annulus	Cu. feet material per 10 lin. ft. pipe with ¾" annulus	Pounds jute for ¾" annulus	Estimated No. joints / man can make of type per 10 hour day	Estimated No. joints / man can make of type per 10 hour day
18"	22"	21¼"	24"	28¼"	29"	8"	1¼"	1"	.2	.08	1½	12	10
24"	29"	28⅜"	31"	33⅜"	36"	8"	1¼"	1"	.27	.11	1¾	11	9
30"	36"	35⅜"	38"	42"	42⅜"	9"	1¼"	1"	.42	.2	2½	9	8
36"	42⅜"	42"	44¼"	48⅜"	49⅜"	9"	1⅜"	⅛"	.44	.2	3	8	7
42"	49¼"	48⅜"	51"	55⅜"	56"	9"	1⅜"	⅛"	.51	.21	3½	7	6
48"	56"	55⅜"	57½"	62¼"	62¾"	10"	1⅜"	¼"	.58	.23	3½	6	5
54"	62⅜"	62¼"	64⅜"	70¼"	70⅜"	10"	1¼"	1"	.72	.29	4	6	5
60	69¼"	69⅜"	72"	78"	78⅛"	10"	1⅜"	1⅛"	.89	.36	5	6	5

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Streets and Roads (Continued)

tively; concrete paving 1.68 mi. Federal Aid Project 91 in Hartford, to Lane Constr. Co., 37 Colony St., Meriden, Conn., $65,373; steel bridge with concrete abutments, approach spans and road approaches on Federal Aid Project 59-A in Brattleboro, to G. H. Stebbins, North Adams, Mass., $125,833, and 1 steel superstructure complete incl. removing old bridge, on Federal Aid Project 88-A in Morristown, to Byron, Foreman & Riggs, Troy, N. Y., $13,600. Grand total $559,475. Noted May 6.

Massachusetts—Dept. Pub. Wks., Boston, bituminous macadam paving 3,340 ft. highway in Sharon, to C. E. Horne, Millbury, $21,900, and 1,900 ft. in Holbrook, to Powers Bros., 161 Montello St., Brockton, $13,131; also rein.-con. paving 18,498 ft. in Somerset and Swansea, to Callan Constr. Co., 208 Franklin St., Bristol, R. I., $276,792. Grand total $311,823. Noted May 13.

Massachusetts—Dept. Pub. Wks., Boston, bituminous macadam paving 5,281 ft. highway in Rayham, to F. L. McNeil, Winthrop St., North Dighton, $30,718, 3,300 ft. in Grafton, to T. Toomey, 60 Lake St., Webster, $14,450, and 18,548 ft. in Hingham and Weymouth, to Lane Constr. Co., 67 Colony St., Meriden, Conn., $252,787; also graveling 1,950 ft. in Medway, to A. D. Pesquale, Milford, $6,762. Grand total $304,717. Noted May 20.

Massachusetts—Metropolitan Dist. Comn., 1 Ashburton Pl., Boston, bituminous macadam paving West Roxbury Parkway in Boston and Brookline, to T. J. McCue, North Beacon St., Watertown, $72,428. Noted May 20.

Mass., Boston — Sheet asphalt paving Arlington St., etc., to J. A. Singarella, 110 High St., $51,776. Noted May 13.

Conn., New Haven—E. S. Nettleton, city engr., asphalt on concrete paving Edgewood Ave. from West River to Alden Ave., to C. W. Blakeslee & Sons, Waverly St., $37,280; and bituminous macadam paving Central Ave. from Chapel St., Fountain St., to J. F. Daly, New Haven, $29,160. Noted May 20.

N. Y., Brooklyn — J. A. Guider, pres. Brooklyn Boro, Boro Hall, asphalt resurfacing Chester, Clayer and other streets to Cranford Co., 9th St., $124,688; asphalt repaving roadway Court St., to Brooklyn Alcatraz Paving Co., Hamilton Ave., $9,483. Noted May 13.

N. Y., Brooklyn — J. A. Guider, pres. Brooklyn Boro, Boro Hall, to F. Mandato, laying sidewalks on 7th Ave., $2,280; to P. Persicano, 489 Lenox Rd., regrading, sidewalks on 67th St., $1,710; to Castle Bros., Johnson Pl., grading, curbing and flagging Bath Ave. $3,923, and East 37th St. $3,737; to Grimm Contg. Co., 170 McKinley St., grading Miller Ave. $4,537, to McHale Contg. Co., 1250 Jefferson Ave., 15th Ave. $5,018, to G. M. Mandato, 129 29th St., East 27th St. $7,316; to Sicilian Asphalt Paving Co., Paldge Ave., grading and sheet asphalt paving Bergen St. $20,811, to Borough Asphalt Co., 1301 Metropolitan Ave., East 27th St. $14,116, Livonia Ave. $5,712, Avenue R $4,339, West 5th St. $6,265, Willoughby Ave. $4,332, 12th Ave. $7,624, 21st Ave. $3,003, 70th St. $8,637, also regulating curb on Montgomery St. $7,223, 47th St. $7,531, and 5th St. $6,791; to Uvalde Asphalt Paving Co., 1 Bway., New York City, grading and asphalt paving Decatur St. $27,135, and Hooper St. $9,654, to Brooklyn Alcatraz Asphalt Co., Hamilton Ave., Avenue M $14,794, 7th Ave. $11,237, and 67th St. $6,365, and to B. Turecamo, 8706 16th Ave., 71st St. $13,930. Grand total $208,020. Noted May 6.

N. Y., Brooklyn — J. A. Guider, pres. Brooklyn Boro, Boro Hall, grading, curbing and flagging Forbell and Pennsylvania Aves., to Grimm Contg. Co., 170 McKinley St. $1,746 and $4,564 respectively, Minna St. to A. M. Zapponi, 113 32nd St. $4,789, and East 7th St., to Castle Bros., Johnson Pl., $10,381; granite paving Eagle St. and Greenpoint Ave., to F. J. Gallagher, 490 Park Pl., $14,164 and $20,882 respectively; asphalt paving East 7th St. and Minna St., to Brooklyn Alcatraz Asphalt Co., 407 Hamilton Ave., $15,798 and $6,242 respectively, Fulton St., to Highway Impvt. & Repair Co., 50 Church St., New York City, $30,547, Colonial Rd. and 50th St., to B. Turecamo Contg. Co., 8706 16th Ave., $6,610 and $5,006 respectively; grading and asphalt repaving Eagle and Moultrie Sts., to Borough Asphalt Co., 1301 Metropolitan Ave. $5,534 and $8,087 respectively, Georgia and Pennsylvania Aves., to Uvalde Asphalt Paving Co., 1 Bway., New York City, $8,509 and $10,307 respectively. Grand total $153,166. Noted May 20.

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., grading and repaving Betts Ave. (58th St.), to Uvalde Asphalt Paving Co., Inc., 1 Bway., New York City, $51,355; grading, curbing and sidewalks on Honeywell St., etc., and grading and sheet asphalt paving 8th Ave., etc., to Welch Bros., 14 Queens St., $4,745 and $22,091 respectively; sheet asphalt repaving Astoria Ave., to W. P. McDonald Constr. Co., Lawrence St., Flushing, $23,921, and 130th St., to Borough Asphalt Co., 1301 Metropolitan Ave., Brooklyn, $22,830. Grand total $124,942. Noted May 13.

N. Y., New York — H. Bruckner, pres. Bronx Boro, Crotona Park, 3rd and Tremont Aves., to C. D. Beckwith, Inc., 2875 Bway., sheet asphalt paving East 174th St. $84,968, Commonwealth Ave. $35,970, and bituminous concrete paving East 180th St. $22,733; to Murray Home Corp., 412 Sound View Ave., grading, etc., Bolton Ave. $544, to I. F. Cavaluzzo, 1192 Sheridan Ave., Ellsworth Ave. $6,835, and to Carroll & Rice, 204 East 45th St., Spofford Ave. $4,717; to F. Gabrielle, 2750 Creston Ave., sewer, etc., in Yates Ave. $3,627, and to Fiorello & Koch, 1895 Belmont Ave., in Vouck Ave. $3,523. Grand total $162,917. Noted May 20.

N. Y., New York—J. Miller, pres. Manhattan Boro, Municipal Bldg., grading, curbing, flagging and stone filled asphalt paving Riverside Dr., to Remo Realty Co., 645 East Tremont Ave., $124,173. Noted May 13.

N. Y., St. George — J. A. Lynch, pres. Richmond Boro, Boro Hall, grading and paving Arthur Ave. from Richmond Ave. to Old Town Rd., to Vanbro Constr. Co., 24 Elizabeth St., West New Brighton, $29,639. Noted May 20.

N. J., Belvidere—Warren Co., concrete paving 4.25 mi. Phillipsburg-Belvidere Rd., to M. Staub, Pitman, $271,380. Noted Apr. 29.

Md., Baltimore — Comrs. Baltimore Co., concrete paving 2.9 mi. Group 7, to H. T. Campbell & Sons Co., Towson, $82,387. Noted May 20.

Md., Baltimore — Bd. Awards, grading, curbing and sheet asphalt paving 5,665 sq.yd. Contr. 336, to Baltimore Asphalt Block & Tile Co., 1320 North Monroe St., $28,896; and concrete footways as listed in Footway Contr. 93, to P. Averza, 104 North Highland Ave. $41,031. Noted May 20.

Va., Richmond — Director Pub. Wks., curbing, guttering grading, concrete paving, etc., 15,000 sq.yd. Hull St. and North Blvd., to Maguire & Rolfe, 1009 Brook Ave., $40,369. Engrs. est. $75,000.

Mississippi — Bd. Supervs. Holmes Co. (Lexington) and Madison Co. (Canton) at office Chancery Clerk, Canton, grading, bridging, graveling, etc., 5,991 cu.yd. Federal Aid Project 72-A, to J. A. and H. E. Pigford, Meridian, $96,655. Noted Apr. 29.

Miss., Corinth — Alcorn Co., grading Corinth-Ashland Highway, to Dyess Constr. Co., Waynesboro, $42,436; reinforcing, to Dudley Bar Co., Jefferson Co. Bank Bldg., Birmingham, Ala., $1,495; culvert pipe to W. S. Dickey Clay Mfg. Co., Birmingham, Ala., $2,916 and 850 bbl. portland cement, to J. D. Biggers, Hdw. Co., Corinth, $2,431. Grand total $49,278. Noted Apr. 29.

Miss., Ocean Springs — Mayor and Bd. Aldermen, grading, sewers and 7 in. concrete paving various streets, to Southern States Constr. Co., Biloxi, $53,000.

Tenn., Jackson — City Comrs., concrete paving 20,000 sq.yd. various streets, to T. L. Hilliard Constr. Co., Jackson, $1.98 per sq.yd. Noted Apr. 15.

Tenn., Nashville—City will oil and gravel surface Parthenon Ave, from 28th Ave. to Mason St., Mason Ave. from Parthenon to Long Aves., 28th Ave. N. from west end to Parthenon Aves., 27th Ave. N. from west end to Poston Aves., Poston Ave. from 27th to Euclid Aves., 30th Ave. from Poston to West End Aves., and Tutweiler Ave. from 2nd to 4th Aves. Work will be done by day labor. To exceed $25,000. H. E. Howse, mayor.

Kentucky—State Hy. Dept., Frankfort, **(F. A. P. means Federal Aid Project and S. A. P. means State Aid Project)**, grading 6.386 mi. Glasgow-Burkesville Rd., F. A. P. 116-B, Barren Co., to S. D. Pace & Co., Burkesville, $62,401, 7.401 mi. Glasgow-Scottsville Rd., F. A. P. 28-C, Barren Co., to Alexander Bros., Cadiz, $129,987, 12.906 mi. Bardwell-Paducah Rd., S. A. P. 9½-A, Carlisle Co., and 4.744 mi. Owensboro-Stanley Rd., S. A. P. 8-F, Daviess Co., to Carter, Carter & Braden, Clay, $142,807 and $17,229 respectively, 12.787 mi. Hopkinsville-Guthrie Rd., F. A. P. 150-A and B, Christian and Todd Counties, to Eli & Marye, Dawson Springs, $85,878, 3.159 mi. Owensboro-Beech Grove Rd., S. A. P. 76-A, Daviess Co., to Taylor-Petri Co., Lewisport, $34,865, and 8.082 mi. Mt. Vernon-Stanford Rd., F. A. P. 148-A, Rockcastle Co., to Moynahon & Turner, Nicholasville, $88,349; rein.-con. surfacing 9.489 mi. Richmond-Mt. Vernon Rd., F. A. P. 88, Madison and Rockcastle Counties, to L. des Cognets Co., Lexington, $267,230, and 26.175 mi. Pineville-Harlan Rd., F. A. P. 151-A, B and C, Bell and Harlan Counties, to Foulkes Contrg. Co., 705½ Ohio St., Terre Haute, Ind., $720,714; grading and rein.-con. paving 3.126 mi. Owensboro-Stanley Rd., S. A. P. 8-E, Daviess Co., to N. B. Stone & Co., Madisonville, $87,022; also 16 in. bituminous macadam surfacing 4.735 mi. Elizabethtown-Hodgenville Rd., F. A. P. 118-A, Hardin and Larue Counties, to G. M. Eady Co., Brook and Lee Sts., Louisville, $73,954. Grand total $1,710,436. Noted Apr. 22.

O., St. Clairsville—Comrs. Belmont Co., concrete paving, etc., 2 mi. Martins Ferry-Mt. Pleasant Pike, to McClain Constr. Co., Bellaire, $80,184; and Egypt-North Rd., to F. Amoine, Bridgeport, $46,696.

Ill., Decatur—Bd. Local Impvts., E. E. Elder, pres., grading, curbing and asphalt paving 5 blocks East North St., 50 ft., to Birt & Driscoll; Decatur, $33,208. Engrs. est. $37,022. Noted May 20.

Ill., East St. Louis — To Keeley Bros. Constr. Co., 2100 State St., 8 in. concrete paving 2,854 sq.yd. 37th St., $12,889 engrs. est. $14,600, 6,080 sq.yd. 33rd St., $33,504 engrs. est. $36,000, and 4,394 sq.yd. 46th St., $18,660 engrs. est. $20,300; to Moore Bros. Constr. Co., 925 North 8th St., 19,060 sq.yd. Winstanley Ave. and 11th St., $79,270 engrs. est. $87,900. Grand total $144,323. Noted Apr. 1.

Ill., Kewanee—Bd. Local Impvts., grading, curbing and rein.-con. paving 12 blocks Pine, Helmer, George, Grove and Williams Sts., 18 to 30 ft., and 9 blocks 1st., Lexington and Park Sts., 23 to 40 ft., to Central Eng. Co., Moline, $45,516 and $32,639 respectively, engrs. ests. $60,000 and $46,523 respectively. Noted May 20.

Ill., Lamont — Bd. Local Impvts., rein.-con. paving 21,100 sq.yd. streets in Assessments 9 and 10, to Jalcks Bros., 107 North Clark St., Chicago, $102,000.

Wis., Milwaukee—Dept. Pub. Wks., asphaltic concrete paving, etc., Center St., to Badger Constr. Co., 97 Wisconsin Ave., $39,316.

Ia., Grundy Center—Grundy Co. improving Federal Aid Project 266, 58,247 cu.yd grading, and 50,940 sta.yd. overhaul, to Shirley & Caldwell, Omaha, Neb., $19,165; drainage work, to P. Jensen, Waterloo, $1,091; 1 bridge, to E. Ove, Dike, $8,595; rein.-con. culverts, etc., to Waugh & Trackman, Clarksville, $3,070; steel culverts, to Independent Corrugated Culvert Co., Independence, $3,000. Grand total $34,921.

Ia., Iowa City—Johnson Co., paving 142,787 sq.yd. Primary Road 7, to Wright Constr. Co., 211 Flynn Bldg., Des Moines, at $0.219 per sq.yd.; grading, etc., 93,491 cu.yd. Iowa City-Solon Rd., to E. W. Kolterman, Omaha, Neb., at $0.269 per cu.yd. Noted May 13.

Ia., Storm Lake—Buena Vista Co., improving Primary and Secondary Projects S-82 to S-89 to Sampson Bros., Algona, $29,700. Noted May 13.

Minn., Marshall—Comrs. Lyon Co., grading, etc., 116,000 cu.yd. various roads, to D. Ryan, Marshall, $28,863.

South Dakota—State Hy. Comn., Pierre, improving 12.21 mi. Federal Aid Project 198-B, Miller Co., 1,181 cu.yd. rock and 90,622 cu.yd. earth excav., 26,697 sta.yd. overhaul, 38,375 lb. reinforcing, etc., to Tobin & Maloney, Madison, $37,980.

North Dakota—State Hy. Dept., Court House, Mandan, grading, etc., 14 mi. Federal Aid Project 305, Morton Co., to W. L. Chapin, McIntosh, S. D., $47,669. Noted Apr. 15.

Tex., Abilene—Taylor Co., grading and bridging 15,478 cu.yd. Highway 1, Federal Aid Project 468, to Sullivan & Davis, Granger, $44,145. Engrs. est. $62,000. Noted Apr. 29.

Tex., Boston — S. J. Robinson, judge Bowie Co., grading, bridging and gravel surfacing 10.75 mi. State Highway 98, State Aid Project 644, 26 ft., to Fooshee & Gafford, Paris, $35,972. Engrs. est. $43,000.

Tex., Cameron — Milam Co., clearing, grubbing and grading 15.067 mi. Highway 43, Federal Aid Project 494-A, 64,073 cu.yd. unclassified excav. and 142,693 cu.yd. borrow, to D. H. Buchanan, Temple, $43,827; bridges, etc. on same road, to Davis Pace Co., 1306½ Young St., Dallas, $71,000.

Washington—State Hy. Dept., Olympia, **(S. R. means State Road)**, grading and graveling, etc. 9,200 cu.yd. S.R. 14, Mason Co., to James Allen Eng. Co., Chambers Bldg., Olympia, $81,453, 6,300 cu.yd. S.R. 9, Clallam Co., to Edland & Burger, 6002 Puget Sound Ave., Tacoma $8,429, and 9,400 cu.yd. S.R. 12, Cowlitz Co., to Olympia Constr. Co., 1326 Northlake Ave., Seattle $19,313; grading, etc. 2.36 mi. S.R. 3, Yakima Co., to T. M. Morgan, 401 Realty Bldg., Spokane $55,333, and 6.08 mi. S.R. 1, King Co., to J. E. Edwards, 1423 South Adams St., Spokane $50,409; constructing timber overhead crossing on S.R. 9, to Olympia Pile Driving Co., Port Townsend.

Streets and Roads (Continued)

$3,582; also 3 bridges over Indian Creek, on S.R. 9, to E. Anderson & Sons, Port Angeles, $23,867. Grand total $242,386. Noted Apr. 29.

Wash., Seattle—Bd. Pub. Wks., grading, etc., 82,000 cu.yd. Lakeside Ave. S. et al, to Goetz & Brennan, Seaboard Bldg., $78,-604. Noted May 20.

Calif., Redwood City — San Mateo Co., Durite asphaltic concrete paving Hillside Blvd., to Hanrahan Co., Standard Oil Bldg., San Francisco, $31,160.

Calif., San Rafael—Marin Co., improving Tiburon Blvd., to J. Currie, 1100 Peninsula Ave., Burlingame, surfacing $0.249 per yd. and culverts (county furnishes) $38,-093. Noted May 6.

Calif., Santa Cruz—Supervs. Santa Cruz Co., will pave with oil macadam, etc., portions East Corralitos, Holohan, Roach Rds. Work will be done by force account. Former bids rejected. L. Bowman, Santa Cruz, co. surv. Noted May 13.

Buildings—Commercial

Proposed Work

Mass., Cambridge (Boston P. O.) — BUSINESS — F. W. McAleer & Co., 1374 Massachusetts Ave., plans brick business block, $150,000 or more. Engineer and architect not selected.

Mass., Everett (Boston P. O.)—SOCIETY Fraternal Building Assn., E. B. Forsland, 28 Reynolds Ave., having plans prepared by O. A. Helrich, 138 Bucknam St., 2 story and basement, brick, Broadway and Hosmer St. $150,000.

Mass., Framingham—HOSPITAL—Town, Dept. Pub. Buildings, raising $350,000 funds, new hospital. Engineer and architect not selected.

Mass., Kingston—COMMUNITY—Town, Dept. Pub. Buildings having sketches made 2 story and basement, 100 x 105 ft., rein.-con. and brick community house. $150,000. Private plans.

Mass., Lynn—APARTMENT—M. Frisch, 12 Chase St., having plans prepared by G. A. Cornet, 10 Central Ave., 4 story and basement, brick, Hanover St. $250,000.

N. Y., Brooklyn—APARTMENT—Owner, c/o E. M. Adelsohn, engr. and archt., 350 Stone Ave., having plans prepared brick, steel and stone, plain foundation, Nostrand and Foster Aves. $250,000.

N. Y., New York—APARTMENT HOTEL —J. G. Siegel, c/o Sugarman & Berger, engrs. and archts., 345 Madison Ave., having plans prepared 27 story, brick, steel and stone, plain foundation. $1,145,000.

N. Y., New York — APARTMENT — B. Winter, 250 Park Ave., plans 30 story, 75 x 125 ft., brick, steel and stone, plain foundation, 52nd St. and 5th Ave. Springsteen & Goldhammer, 32 Union Sq., engrs. and archts.

N. Y., New York—THEATRE and OFFICE—A. Hammerstein, 1650 Bway., having sketches made by H. J. Krapp, engr. and archt., 1 West 47th St., 15 story, brick, steel and stone, plain foundation, 213 West 53rd St. $1,500,000.

N. Y., Ossining — ADMINISTRATION, etc.—State Building Comn., Albany, having plans prepared by S. W. Jones, Capitol, Albany, administration building and community center, etc., at Sing Sing Prison, here. $2,500,000.

N. Y., Port Chester—BANK—First Natl. Bank & Trust Co. soon takes bids brick, steel and stone, plain foundation, Main St. $200,000. Mowbray & Uffinger, 221 West 57th St., New York City, engrs. and archts.

N. Y., Schenectady —Y. M. C. A. having plans prepared by Helmle & Corbett, 130 West 42nd St., New York City brick, steel and stone, plain foundation. $600,000. G. Aus, 244 Madison Ave., New York City, engr.

N. J., Atlantic City — HOTEL — F. J. Friez having plans prepared by W. M. Stacy, 1524 Chestnut St., Phila., Pa., rein.-con., brick and steel, Belfort Hotel, 106 Tennessee Ave. $160,000.

N. J., Bayonne — HOSPITAL and NURSES HOME—Bayonne Hospital, East 30th St., having preliminary plans prepared by Crow, Lewis & Wick, engrs. and archts., 200 5th Ave., New York City, 5 story hospital, $500,000, and 4 story nurses home, $150,000, both brick, steel and stone, plain foundations.

N. J., Newark — HOSPITAL — Presbyterian Hospital, South 9th St., plans 6 story, brick steel and stone, plain foundation, South 9th St. $450,000. Engineer and architect not selected.

N. J., Newark — OFFICE and LOFT — Griffith Piano Co., 605 Broad St., having plans prepared by G. E. Jones, engr. and archt., 9 Clinton St., 12 story, brick, steel and stone, plain foundation, 605 Broad St. $850,000.

N. J., Perth Amboy — BANK — Perth Amboy Trust Co., I. Alpern, pres., plans 8 story, 50 x 100 ft., bank, 133-35 Smith St. $600,000. Engineer and architect not selected.

Pa., Pittsburgh — HOME, etc. — Voted $2,500,000 bonds, city home and hospital; $600,000 bonds, Police and Fire Dept. buildings; $250,000 bonds, improving and extending tuberculosis hospital Leech Farm, etc.

Pa., Tyrone—STORE—A. W. Templeton, 863 Lincoln Ave., plans 4 story and basement, 150 x 150 ft., brick, concrete and steel, Logan Ave. $175,000. Engineer and architect not selected.

Md., Baltimore—THEATRE—Stanley Co. of North America, 1916 Race St., Phila., Pa., soon takes bids 1 story and basement, (80 ft. high), 100 x 300 ft., rein.-con., brick and steel, plain foundation, Howard and Franklin Sts., here. $1,500,000. Hoffman-Henon Co., Finance Bldg., Phila., Pa., archts.

N. C., Charlotte—OFFICE—V. P. Loftis plans 10 story and basement office building.

N. C., Greensboro—OFFICE—Dixie Fire Insurance Co. plans rebuilding "Dixie Building," recently destroyed by fire. $200,-000. H. R. Bush, pres.

Miss., Gulfport—HOTEL—E. Milgrim & L. E. Duetsch, Gulfport, and Gary, Ind., purchased site and making preliminary plans 6 story, rein.-con., brick and stone, 26th Ave. and 14th St. $600,000.

Miss., Pass Christian—HOTEL—M. Eiseman et al, Union Indemnity Bldg., New Orleans, La., plan hotel. $1,500,000.

La., Lafayette — COURTHOUSE — Lafayette Parish takes bids about July 7, 3 story, rein.-con., brick and stone courthouse. $300,000. W. T. Nolan, Canal-Commercial Bldg., archt. Noted Mar. 4.

O., Ashtabula—THEATRE—M. G. Newberger having preliminary plans prepared by McGarry & McGarry, 4614 Prospect Ave., Cleveland, 1 story and basement, brick, steel and concrete theatre. $150,000.

O., Cleveland—COMMERCIAL and HOTEL—Paul Bros., c/o G. Paul, Fidelity Mortgage Bldg., having plans prepared by E. McGeorge, 3030 Euclid Ave., 3 story (ultimately 6 story), 78 x 198 ft., brick, steel and concrete, East 105th St. and Carnegie Ave. $350,000.

O., Cleveland — COMMERCIAL and LODGE—The On Leong Tong Chinese Merchants Assn., T. Chan Poy, secy., plans 3 or 4 story, brick, steel and concrete, Oregon Ave. $250,000. Engineer and architect not selected.

Ind., Indianapolis — APARTMENT STORE—Drake Realty Co., 4451 Central Ave., had plans prepared by Foster Eng. Co., 726 Knights of Pythias Bldg., 3 story and basement, rein.-con. and brick, North Alabama St. $155,000.

Ind., Indianapolis—THEATRE—W. H. Griffin, 30th and Illinois Sts., having preliminary plans prepared 3 story, 102 x 300 ft., 2,500 seating capacity, 30th and Illinois Sts. $500,000.

Ind., Terre Haute—HOTEL—Terre Haute Hotel Co., takes bids early in June, 10 story and basement hotel. $1,000,000. W. E. Russ, 3015 North Pennsylvania Ave., Indianapolis, archt. Noted Nov. 12.

Mich., Capac — HOSPITAL — Narcotic Educational Assn., H. P. Wilson, pres., 725 Hammond Bldg., Detroit, plans 2 or 3 story, 100 bed, rein.-con. and brick, plain foundation. $150,000. Engineer and architect not selected.

Mich., Detroit—CLUBHOUSE—Twentieth Century Club, I. Hurst, pres., Columbia and John R. Sts., having plans prepared by G. D. Mason Co., 508 Griswold St., 2 story and basement, 100 x 150 ft., rein.-con., brick and steel addition, plain foundation, Columbia and John R. Sts. $200,000.

Ill., Champaign — DORMITORY and CAFETERIA—F. B. Mead, 603 South 6th St., having preliminary plans prepared by Rowe, Dillard & Rowe, 127 North Dearborn St., Chicago, 5 story and basement, 40 x 175 ft., rein.-con., brick and stone, East Green St. $175,000.

Ill., Chicago — APARTMENT — Lowenberg & Lowenberg, archts., 111 West Monroe St., preparing plans and soon takes bids 12 story and basement, 140 x 148 x 196 ft., rein.-con., brick, steel, stone and terra cotta, Surf St. and Sheridan Rd., for I. M. Sevin & H. L. Solomon, 140 North Dearborn St. $2,500,000. Noted Sept. 17.

Ill., Chicago—APARTMENT—Koenigsberg & Wesfield, archts., 155 North Clark St., preparing plans and take bids in June or July, 6 story and basement, 62½ x 150 ft., rein.-con. and steel, 5441-43 Kenmore Ave., for S. Brin, c/o architect. $300,000.

Ill., Chicago—BANK—W. W. Ahlschlager, archt., 65 East Huron St., preparing plans and takes bids about July [illegible] story and basement, 150 x 150 ft., rein.-con., brick and steel, South Parkway and 47th St., for Bankers State Bank, South Parkway and 47th St. $400,000.

Ill., Elgin — OFFICE — Wolf, Seaton, Harper & Treaux, archts., 431 North Michigan Ave., take bids about June 15, 10 story and basement, 61 x 125 ft., rein.-con., brick, steel and terra cotta, for Syndicate, c/o architects. $400,000.

Ill., Rock Island—CITY HALL—Defeated $200,000 bonds, city hall, 3rd Ave. and 16th St. Noted Apr. 8.

Wis., Milwaukee—STORE—H. P. Heusshalter, 1448 Green Bay Ave., having plans prepared by Tharinger & Bruecker, 486 Cramer St., 2 story and basement, 77 x 130 ft., brick and steel, plain foundation, Green Bay Ave. $150,000.

Ia., Cedar Rapids—SHRINE—El Kahir Temple Shrine, c/o J. E. Blake, chn. building com., c/o City Rapids and City Railway, 212 South 2nd St., having preliminary plans prepared by R. F. Moore, Granby Bldg., 2 story, 85 ft. high and basement, 140 x 170 ft., rein.-con., brick, steel and stone or terra cotta, A Ave. and 6th St. $250,000.

Ia., Des Moines—OFFICE and WAREHOUSE—International Harvester Co., 606 South Michigan Ave., Chicago, Ill., having plans prepared by W. D. Price, engr., archt. and supt. constr., 606 South Michigan Ave., 5 story, 88 x 150 ft., rein.-con., plain foundation, here. $175,000.

Kan., Kansas City—Y. M. C. A., 431 North 15th St., having plans prepared by H. F. Almon, 1006 Orear-Leslie Bldg., Kansas City, Mo., 3 story and basement, 120 x 128 ft., rein.-con. and stone building, $200,000. H. A. Noble, 719 Pioneer Trust Bldg., Kansas City, Mo., structural engr. Noted Apr. 8.

Mo., Independence — COURT HOUSE — Jackson Co. plans election probably in June, $350,000 bonds, court house. W. Hoag, 102 Walsix Bldg., Kansas City, archt. Noted Mar. 4.

Mo., Kansas City — HOSPITAL — Children's Mercy Hospital, 121 Clinton Pl., had plans prepared by Hoit Price & Barnes, 800 Davidson Bldg., 3 story and basement, 38 x 140 ft., rein.-con., brick and terra cotta hospital and roof garden, Independence and Woodland Sts. $150,000.

Mo., Kansas City — HOTEL — Armour-Warwick Real Estate Co., 3619 Bway., Kansas City, having plans prepared by J. S. White, 3619 Bway., 12 story and basement, 140 x 180 ft., rein.-con., brick and terra cotta hotel. To exceed $150,000.

Mo., Louisiana—HOSPITAL—Otis Smith Hospital Assn., C. G. Buffum, pres., plans 3 story, rein.-con., brick and stone county hospital. $150,000.

Mo., St. Louis — APARTMENT — M. Homberg, c/o H. R. Weisel Co., Inc., International Life Bldg., plans 6 story and basement, 85 x 100 ft., rein.-con., brick, stone and terra cotta apartment. $400,000. Engineer and architect not selected.

Mo., St. Louis—ORPHANAGE—Jewish Orphans Home, 3117 Lafayette Ave., making preliminary plans rein.-con., brick and stone orphanage, incl. administration building and two cottages, Oakland Ave. near Skinker Blvd. $250,000.

Tex., Childress — HOTEL — F. R. Rhea, having plans prepared by W. C. Meader, 912 Don Waggoner Bldg., Ft. Worth, 4 story and basement, 88 x 112 ft., stone, rein.-con. and brick hotel. $150,000.

Tex., Pecos—OFFICE, etc.—Pecos Valley Southern Ry. Co., L. W. Anderson, vice pres. and genl. mgr., having plans prepared by J. R. Smith, 310 Blackburn Bldg., Amarillo, office and railway shops. $200,000.

Tex., Port Arthur — HOSPITAL — City plans 4 story, rein.-con. and brick addition to Mary Gates Hospital, plain foundation. $150,000. Address J. P. Logan, mayor.

Tex., San Antonio—APARTMENT—J. S. Van Hope, Los Angeles, Calif., plans 2 to 5 story and basement apartment, Bway. Ave. opposite Breckenridge Park. $300,000. Engineer and architect selected soon.

Tex., San Antonio — APARTMENT — J. S. Van Hope, c/o 321 North St. Marys St., having plans prepared by R. H. Cameron, 1116 City Natl. Bank Bldg., 10 story and basement, rein.-con., brick and steel, plain foundation, Bway. near Post Ave. $450,000.

Wash., Bellingham—THEATRE—R. C. Reamer, archt., Seattle, takes bids about June 30, 2 story, 92 x 200 ft., rein.-con., Champion and North Commercial Sts., here, for Metropolitan Development Co., Henry Bldg., Seattle. $250,000.

Ore., Astoria — HOSPITAL — Lutheran Synod having plans prepared by J. E. Wicks, Astoria, 3 story hospital. $175,000.

Calif., Hollywood—STORE and OFFICE —Interests headed by F. R. Strong, Marsh-Strong Bldg., Los Angeles, plans 6 story or more, 100 x 150 ft., Class "A" construction, Vine St. and Hollywood Blvd., here.

Buildings—Commercial (Continued)

Calif., Los Angeles—APARTMENT—L. A. Bryant, archt., 700 South La Brea Blvd., preparing plans 6 story and basement, fireproof, Rossmore Ave. To exceed $500,000. Owner's name withheld.

Calif., Los Angeles—APARTMENT—J. T. Payne & G. A. Bissell, associated archts., Western Mutual Life Bldg., preparing preliminary plans 3 story and basement, 125 x 150 ft., probably brick, Willoughby Ave. $150,000. Owner's name withheld.

Calif., Los Angeles — COMMERCIAL — Parmalee-Dohrmann Co., 436 South Bway., having plans prepared by Ashley & Evers, 58 Sutter St., San Francisco, 8 story and basement, 80 x 152 ft., rein.-con., 739-45 South Flower St. To exceed $150,000.

Calif., Los Angeles — HOSPITAL — Childrens Hospital Assn., c/o L. H. Gibbard, archt., Metropolitan Bldg., having preliminary plans prepared 3 and 4 story, rein.-con. hospital and nurses home, Vermont Ave. and Sunset Blvd. $500,000 or more.

Calif., Oakland—OFFICE—Great Western Power Co. of California, 530 Bush St., San Francisco, having plans prepared by Ashley & Evers, 58 Sutter St., San Francisco, 10 story, steel and rein.-con., 17th and Bway. Sts., here. $300,000 or more.

Calif., San Francisco—APARTMENT—A. H. Knoll, archt., 222 Kearny St., preparing plans 6 story and basement, concrete, Geary and 31st Aves. $150,000. Owner's name withheld.

Calif., San Francisco—AUTO SALES—E. C. Anthony, 1325 Van Ness Ave., plans 4 or more story auto sales building, Ellis and Van Ness Aves. $300,000 or more.

Calif., San Francisco — HOTEL and STORE—Rhine, Kiernan & O'Brien, Alexander Bldg., plans two 6 or more story and basement, rein.-con. and steel, one at South Bush St. near East Jones St. and other at North Bush St. near East Grant Ave. Each to exceed $150,000.

Calif., San Francisco—OFFICE—A. P. Giannini, et al, Bank of Italy Bldg., having plans prepared by H. A. Minton, Bank of Italy Bldg., 5 story, fireproof addition, Market and McAllister Sts. $250,000 or more.

Calif., San Jose—THEATRE and STORE—Kern & Hamburger, 110 Sutter St., San Francisco, purchased site and plans probably rein.-con., West Santa Clara St. To exceed $150,000. Engineer and architect not selected.

Calif., Santa Barbara—BANK and OFFICE—Interests represented by W. R. MyGatt, atty., San Marcos Bldg., plans fireproof, Estado and Figueroa Sts. To exceed $150,000.

Man., Winnipeg—HOSPITAL—Salvation Army, 317 Carlton St., soon takes bids 4 story, rein.con. and brick addition to Grace Hospital. $180,000. J. N. Semmens, 509 Great West Permanent Loan Bldg., archts.

Bids Desired

Mass., Boston — STORE and APARTMENT — See "Contracts Awarded."

Mass., Everett (br. Boston) — APARTMENT — See "Contracts Awarded."

Mass., Hyde Park (br. Boston) — THEATRE — S. A. Glazier, c/o T. M. Sargent, archt., 162 Tremont St., Boston, taking bids 1 and 2 story and basement, rein.-con., brick and granite addition, here. $150,000.

R. I., Woonsocket—SOCIETY—May 31, by L'Union St. Jean, c/o W. Fontaine, 285 Main St., brick and steel, Main St. $425,000.

Conn., New Britain—THEATRE—See "Contracts Awarded."

Conn., West Hartford (br. Hartford)—APARTMENT—See "Contracts Awarded."

N. Y., New York—APARTMENT—See "Contracts Awarded."

N. J., Toms River—HALL of RECORDS, etc.—June 11, by Bd. Freeholders Ocean Co., Court House, addition to Hall of Records and new court room. P. P. Elkington, archt. and engr.; adv. E. N.-R. May 27.

Pa., Wilkinsburg—BANK—Wilkinsburg Bank, Wood St., and Mowbray & Uffinger, Inc., archts., 250 West 57th St., New York City, taking bids 3 story and basement, 42 x 133 ft., brick and steel addition. $200,000.

La., Shreveport—BUSINESS—June 2, by Jones, Roessle, Olschner & Weiner, archts., Shreveport, 6 story, 123 x 160 ft., rein.-con., brick and stone, Texas Ave. near Grand Ave., for Johnson Furniture Co.

Ill., Chicago — APARTMENT — E. J. Meles, archt., 105 West Monroe St., taking bids 9 story and basement, 100 x 100 ft., rein.-con., brick and terra cotta, Clarendon Ave. and Gordon Terrace, for Syndicate, c/o architect. $500,000. Noted Mar. 4.

Calif., Pasadena—EXCHANGE—Parkinson & Parkinson, archts., Title Insurance Bldg., Los Angeles, taking bids 3 story (ultimately 7 story) and basement, 100 x 150 ft., brick, steel and rein.-con., Green and Madison Sts., here, for Southern California Telephone Co., 740 South Olive St., Los Angeles.

Calif., San Francisco—APARTMENT—See "Contracts Awarded."

Calif., San Luis Obispo—HOSPITAL—June 14, by J. G. Driscoll, clk. San Luis Obispo Co., 2 story, Class "A" hospital. $150,000. W. Mooser, Nevada Bank Bldg., San Francisco, archt. Noted Mar. 25.

Bids Received

N. Y., Yonkers—BATH HOUSE—Westchester Co. Park Comrs., 72 Pondfield Rd., Bronxville, May 19, bath house at Tibbetts Brook Park, here, from Kenneth Mackay, 2 Hudson St., $218,410. Noted May 6.

Pa., Phila.—CITY HALL—G. H. Biles, dir. Pub. Wks., City Hall, May 19, general contract 15 story, basement and sub-basement, 100 x 171 ft., granite, limestone and brick annex, Juniper and Filbert Sts., from G. A. Fuller Co., Morris Bldg., spread foundations, $1,879,000, and caisson foundations $1,905,000; plumbing, from N. Cornell, 1404 North 18th St., $51,402; heating and mechanical equipment, from J. Borden & Bros., 637 North 19th St., $182,000; and electrical work, from E. McCandless Co., 9th and Chestnut Sts., $167,300. Noted May 6.

O., Columbus — CITY HALL — W. H. Duffy, dir. Pub. Serv., May 18, general contract 5 story and basement, Bedford stone, brick and terra cotta, Front St., from Bayajolu & Barr, 145 North High St., $1,198,000; plumbing, from Esswein Plumbing & Heating Co., Columbus, $35,300; heating, from Vehorn & Osterfeld, 407 South Main St., Dayton, $45,000; and electrical work, from Electric Power Equipment Co., 51 East Chestnut St., Columbus, $56,488.

Contracts Awarded

Mass., Boston — STORE and APARTMENT — Charles River Esplanade, Inc., c/o S. Stern, 294 Washington St., will build 5 story and basement, irregular, brick and stone, Revere St. $150,000. Work will be done by separate contracts. Silverman, Brown & Heenan, 51 Cornhill, archts.

Mass., Everett (br. Boston) — APARTMENT — Medford Real Estate, Inc., c/o Weinbaum & Wexler, archts., 73 Cornhill, Boston, will build 2 story and basement, brick, Francis St., by day labor. $700,000.

Mass., Quincy (Ind. br. Boston)—THEATRE and STORE—Universal Realty Co., c/o E. H. McEven, archt., 72 Woodbine Ave., Wollaston, 1 and 2 story and basement, brick, stone and steel, Beal and Chapman Sts., to Sears & Sons, 72 Woodbine St., Wollaston. Archts. est. $200,000.

R. I., Pawtucket — HOME — Lodge of Elks, Building Com., 3 story 82 x 150 ft., brick, steel and stone, Exchange and Montgomery Sts., to Mahoney & Tucker, 72 Weybosset St., Providence. Archts. est. $150,000. Noted Jan. 21.

R. I., Pawtucket — OFFICE — W. H. Walker Estate, c/o W. R. Walker & Son, archts., 49 Weybosset St., Providence, 3 story, brick and steel, Main St., to Interstate Constr. Co., 308 Tribune Bldg., Providence. Archts. est. $150,000.

Conn., Middletown—STORE and APARTMENT—P. J. Sturek, 460 Main St., 4 story, brick and steel, Main and Washington Sts., to D. O'Brien & Sons Co., River Rd. Archts. est. $150,000. Noted May 20.

Conn., New Britain—THEATRE—G. Ratner, 42 Church St., New Haven, will build 1 story, 68 x 105 ft., brick and steel, Broad and Washington Sts. Work will be done by separate contracts. $150,000. Private plans. Noted Apr. 22.

Conn., West Hartford (br. Hartford)—APARTMENT—J. Kanter & R. Sinclaire, 338 Asylum St., Hartford, will build 5 and 6 story, brick and steel, North Main and Brookside Aves. Work will be done by separate contracts. $1,250,000. Private plans.

N. Y., Long Island City—WAREHOUSE—R. H. Macy, Bway. and 34th St., New York City, 3 story, 145 x 200 ft., rein.-con., brick and steel, plain foundation, Manley St., here, to Barney-Ahlers Constr. Corp., 110 West 40th St., New York City. Archts. est. $500,000.

N. Y., New York — APARTMENT — Arthur Holding Corp., c/o Springsteen & Goldhammer, engrs. and archts., 32 Union Sq., will build 5 story, brick, steel and stone, plain foundation, Vermilyea Ave., by day labor. $175,000.

N. Y., New York—APARTMENT—Fred T. Ley & Co., Inc., 19 West 44th St., will build 3 story, brick, steel and stone, plain foundation, 5th Ave. and 18th St. Work will be done by separate contracts.

N. Y., New York—APARTMENT—Mebor Realty Co., c/o Berlinger & Kaufman, engrs. and archts., 66 5th Ave., will build 5 story, brick, steel and stone, plain foundation, 183rd St. and Grand Ave., by day labor. $200,000.

N. Y., New York—APARTMENT—Ruthmore Building Corp., c/o Springsteen & Goldhammer, engrs. and archts., 5 story, brick, steel and stone, plain foundation, Seaman Ave. and 207th St., by day labor. $175,000.

N. Y., New York — STORE and SHOWROOM — B. Winter, 250 Park Ave., 5 story, 25 x 125 ft., brick, steel and stone, plain foundation, 664 5th Ave., to J. C. Udall, 29 West 34th St.

N. J., Atlantic City—APARTMENT—N. Levan, 1329 Pacific Ave., 11 story and basement, 100 x 100 ft., rein.-con., brick and steel, plain foundation, Pacific Ave. between South Carolina and Tennessee Sts., to C. P. Tillon, 6 South Virginia St. Archts. est. $600,000.

N. J., East Orange—APARTMENT—Polakoff Constr. Co., c/o R. Botelli, engr. and archt., 207 Market St., Newark, will build brick, steel and stone, plain foundation, Prospect St., by day labor. $200,000.

Del., Wilmington — OFFICE and EXTRACT PLANT — Tannin Corp., 1 Pershing Sq., New York City, N. Y., will build 1 story, 75,000 sq.ft. floor space, brick, steel and rein.-con., plain foundation, Marine Terminal, here. $1,000,000. Work will be done by separate contracts under supervision of E. B. Carter, engr., 1 Pershing Sq., New York City.

Ga., Savannah — OFFICE and WAREHOUSE — Atlantic Coast Line R.R. Co., Wilmington, N. C., J. E. Willoughby, ch. engr., 5 story, brick and stone, East Broad and Liberty Sts., here, to Dwight P. Robinson, 125 East 46th St., New York City. Engrs. est. $800,000.

Fla., Miami — BANK and OFFICE — Model Land Co., J. W. Hoffman, vice-pres., City Bldg., St. Augustine, 12 story, brick, steel and stone, Southeast 1st St., to Turner Constr. Co., 244 Madison Ave., New York City, N. Y. Archts. est. $2,000,000. Noted Mar. 18.

Ohio — ARMORIES — Adjutant General, State House, Columbus, 2 armories, one 2 story, 50 x 100 ft., at Washington, to J. A. Huston & Co., Lancaster, approximately $45,000; and other 2 story, 100 x 200 ft., at Chillicothe, to Nolze & Norton, 30 Cypress Ave., Columbus, approximately $85,000, both brick and concrete. Noted Apr. 15.

Ill., Chicago — HOTEL — E. J. Melas, archt., 105 West Monroe St., masonry and concrete contract 14 story and basement, 100 x 150 ft. hotel, to A. Lindstrom, 77 West Washington St., and plumbing, to J. Schiller & Co., 1512 West Roosevelt Rd., for B. E. Cohen, et al. Archts. est. $1,500,000. Noted Apr. 15.

Ill., Chicago — HOTEL — Rissman & Hirschfeld, archts., 64 West Randolph St., general contract 14 story, 107½ x 200 ft., rein.-con., brick, stone and terra cotta, Walton Pl. near Michigan Ave., to A. Brundage, 110 South Dearborn St., for Davis Hotel Co., 831 Wilson Ave. Archts. est. $3,000,000. Noted Mar. 4.

Ill., Chicago — OFFICE and SALES — Gardener & Lindberg, archts., 140 South Dearborn St., general contract 3 story and basement, 85 x 110 ft., rein.-con. and brick, Washington Blvd. and Elizabeth St., to R. C. Wieboldt Co., 1534 West Van Buren St., for Creamery Package Co., 61 West Kinzie St. Archts. est. $150,000. Noted Apr. 22.

Ill., Peoria — CHEMICAL — Commercial Solvent Co., 601 Parkside Ave., 1 and 2 story, rein.-con. and brick, Durst St., to Stone & Webster Constr. & Eng. Co., 147 Milk St., Boston, Mass. Archts. est. $1,000,000.

Ill., Rockford — THEATRE, STORE and APARTMENT — W. C. Burnett, 2 Genesee St., 3 story and basement, 137 x 205 ft., rein.-con., brick, stone and terra cotta, Genesee and Clayton Sts., to J. J. Reading & Co., 10 North Clark St., Chicago. Archts. est. $1,000,000.

Ill., Urbana — ARMORY — University of Illinois, 2 story, 285 x 474 ft., rein.-con., brick and stone addition, on campus, to A. W. Stoolman, 212 East Armory St., Champaign. Archts. est. $425,000. Noted Mar. 25.

Calif., Los Angeles—APARTMENT—H. N. Dickerman, 620 Pacific Natl. Bank Bldg., will build 4 story and basement, 80 x 160 ft., rein.-con., West Moreland Pl., by day labor. $150,000.

Calif., Los Angeles—APARTMENT—B. Koyan, 401 North Breed St., and H. J. Zacks, 2913 Brooklyn Ave., will build 4 story and basement, brick, South Berendo St., by day labor. $150,000.

Calif., Los Angeles—STORE—Felchin, Shaw & Franklin, (archts. and contractors), Commercial Exch. Bldg., will build 6 story, 60 x 152 ft., rein.-con., Flower St. between

Buildings—Commercial (Continued)

7th and 8th Sts., for Meyer Siegel & Co., 617 South Bway. $300,000. Noted Feb. 11.

Calif., San Francisco—APARTMENT—A. Figone, 2631 Baker St., will build 5 story and basement, concrete, Baker and Union Sts., by day labor. $150,000. Private plans.

Ont., Toronto—OFFICE—Bell Telephone Co. of Canada, 76 Adelaide St. W., general contract 2 story top addition, rein.-con., brick and steel, to Witchall & Son, 156 St. Helens Ave. Archts. est. $150,000.

Sask., Saskatoon—OFFICE—Saskatoon Bldg. & Development Co., c/o F. R. MacMillan, general contract 4 story, 80 x 100 ft., brick, 2nd Ave. and 21st Ave., to A. W. Cassidy & Co., Saskatoon. Archts. est. $200,000.

Man., Winnipeg — HOSPITAL — F. R. Evans, superv. archt., 902 Confederation Life Bldg., general contract 3 story, basement and sub-basement 46 x 150 ft. and 46 x 205 ft., rein.-con., brick and stone, Sherbrooke and Wolseley Sts., to J. A. Tremblay, 55 Hargrave St., for Sisters of Misericorde, Sherbrooke and Wolseley Sts. Archts. est. $250,000. Noted Apr. 29.

Buildings—Industrial

Proposed Work

Mass., Cambridge (Boston P. O.) — POWER HOUSE — Middlesex Co. County Court House, A. Cutting, chn., plans power house. $175,000. Engineer and architect not selected.

Mass., Charleston (sta. Boston)—FACTORY—W. F. Schraff & Son Corp., 160 Washington St., having plans prepared by Lockwood, Greene & Co., 24 Federal St., Boston, brick addition, Sullivan Sq. $50,000.

Mass., Lynn — REPAIR and SERVICE GARAGE — M. Galaid, 540 Beach St., Revere, having sketches made by E. Earp, 333 Union St., 1 story, 85 x 220 ft., rein.-con. and brick, 234 Chestnut St. $70,000.

Mass., Milton (br. Boston)—REFRIGERATION PLANT—Granite City Ice Co., 550 Adams St., East Milton, plans refrigeration plant. To exceed $40,000. Engineer and architect not selected.

Mass., Somerville (Boston P. O.)—REPAIR and SERVICE GARAGE—Pilgrim Motor Co., Walnut St., having plans prepared by E. J. MacDonald, engr. and archt., 77 Summer St., Boston, 1 story, 120 x 165 ft., brick, New Northern Artery, Felsway East. $80,000.

N. Y., Lackawanna—CEMENT PLANT—Federal Portland Cement Co., 1082 Ellicott Sq. Bldg., Buffalo, takes bids in June, 1 to 4 story and basement rein.-con. and steel, Hamburg Rd. $2,000,000. Allis-Chalmers Co., Wallis St., Milwaukee, Wis., engrs.

N. Y., New York—PLANT—A. Kimball & Co., 307 West Bway., plans 8 story, rein.-con., brick and steel, plain foundation, West Bway. $200,000. Engineer and architect not selected.

N. J., East Burlington (mail Burlington) —FACTORY—U. S. Cast Iron Pipe & Fdry. Co., 71 Bway., New York City, having plans prepared 1 story, rein.-con., brick and steel, plain foundation, here. $65,000. Private plans.

Pa., Fox Chase (Phila., P. O.)—MANUFACTURING—Ballinger Co., archts., 12th and Chestnut Sts., Phila. soon lets contract, 1 and 2 story rein.-con. and brick manufacturing plant and boiler room, plain foundation, Rabin St. and State Rd., here, for J. J. Nesbitt, Inc., c/o architects.

Pa., Meadville — FACTORY — Hookless Fastener Co. soon lets contract, 2 story, 50 x 200 ft., and 3 story, 60 x 300 ft., brick and rein.-con. factory. Wilbur Watson & associates, 4614 Prospect Ave., Cleveland, O., engrs. and archts. Noted Apr. 29.

Neb., Omaha—GARAGE and SERVICE—J. Latenser & Sons, archts., 732 Peters Trust Bldg., rejected bids garage and service, 20th and Center Sts., for Metropolitan Utilities Dist., City Hall. Will readvertise. $275,000. Noted Nov. 12.

O., Cleveland — WAREHOUSE, etc. — Cleveland Stevedore Co., C. J. Murphy, secy. and treas., Perry Payne Bldg., having plans prepared by A. Richley, engr. and archt., 1006 Eddy Rd., 5 story, 100 x 600 ft., brick and rein.-con. warehouse and dock. $1,000,000.

Bids Desired

Mass., New Bedford—BOILER HOUSE—Pocahontas Fuel Co., Inc., taking bids 2 story, 30 x 40 ft., brick and terra cotta boiler house. $40,000. H. S. Adams, 1 Court St., Boston, engr.

Mass., Somerville (Boston P. O.)—REPAIR SHOP and GARAGE — Boston Elevated Ry. Co., Park Sq. Bldg., Boston, taking bids 2 story, 45 x 145 ft., rein.-con., brick and steel garage and repair shop, here. $85,000 or more. A. J. Blackburn, Park Sq. Bldg., Boston, archt. Noted Apr. 29.

Pa., Lewistown—POWER HOUSE—June 1, by Ballinger Co., archts., 12th and Chestnut Sts., Phila., 2 story, 62 x 95 ft., rein.-con. and brick addition to power house, incl. plumbing, plain foundation, on Juaniata River, here, for Viscose Co., Marcus Hook.

Pa., White Haven—MANUFACTURING—Lehigh Chemical Co. taking bids group 1 story, brick, steel and timber buildings.

O., Cleveland — PUBLISHING—German Baptist Publication Society, c/o H. P. Donner, mgr., 3804 Payne Ave., taking bids 2 story 30 x 50 ft., and 1 story 27 x 75 ft, brick and steel, East 38th St. and Payne Ave. $40,000. A. G. Simon, Hippodrome Bldg., engr. and archt.

Ind., Elkhart — FACTORY — Absolute Contg. Co. taking bids 1 story, 200 x 400 ft., brick and steel factory. $45,000. H. Miller, Elkhart, archt.

Tex., Houston—WAREHOUSE, etc.—See "Contracts Awarded."

Contracts Awarded

Mass., Boston—FACTORY—Drake Bros. Co., 85 Savin St., Roxbury, 4 story, 60 x 110 ft., rein.-con. and brick addition, to Blake & Pope, 53 State St. Archts. est. $75,000.

Mass., Springfield—MANUFACTURING and OFFICE — Westinghouse Electric & Mfg. Co., 2 story, 45 x 300 ft. office, and 1 and 4 story irregular brick manufacturing buildings, to Adams & Ruxton Constr. Co., 387 Main St. Archts. est. to exceed $150,000. Noted May 6.

Conn., Stamford—PAINT PLANT—Baer Bros., 700-68 Canal St., 2 story, 125 x 132 ft., brick and steel addition, to Thompson & Binger, 103 Park Ave., New York City. Archts. est. $75,000. Noted Apr. 29.

N. Y., Brooklyn—VARNISH FACTORY—Hilo Varnish Co., Marcy Ave., rein.-con., brick and steel, plain foundation, Marcy Ave., to W. P. McGarry Co., 292 Freeman St. Archts. est. $200,000.

N. Y., Olean — MACHINE SHOP, FOUNDRY, etc.—Clark Bros. Co., 100 x 200 ft. machine shop, 100 x 120 ft. foundry, and 40 x 90 ft. tool building, all rein.-con., brick and steel, to H. K. Ferguson Co., 4900 Euclid Ave., Cleveland, O.

Pa., Avis—BOILER HOUSE, etc.—New York Central R.R. Co., 466 Lexington Ave., New York City, N. Y., G. W. Kittredge, ch. engr., reconstructing, etc. boiler house, here, to W. M. Bullard, Inc., Syracuse, N. Y., $50,000; and altering piping and wiring in power station, here, to E. Joy Co., 133 Market St., Syracuse, N. Y., $25,000.

Ga., Savannah — FREIGHT WAREHOUSE — See "Buildings—Commercial."

La., West Monroe — OIL MILL — Union Oil Mill Co., 1 story, 50 x 360 ft., steel and concrete, to Denham-Vankewren-Denham, Age-Herald Bldg., Birmingham, Ala. Archts. est. $40,000.

Ind., Peru—CREAMERY, etc.—Sanitary Milk & Ice Cream Co., creamery, garage and barn, brick, concrete and steel, to C. Clifton Constr. Co., $60,000.

Ind., Shelbyville — FACTORY — Shelbyville Desk Co., steel contract 3 story, 70 x 160 ft., brick and timber, to R. Berner Structural Steel Co., 401 South Harding St., Indianapolis. Archts. est. $45,000.

Mich., Detroit—ENAMELING PLANT—C. Kotting, archt., 2306 Dime Bank Bldg., 2 story, 85 x 100 ft., rein.-con., brick and steel, plain foundation, Jefferson Ave., to Malow-Barry Co., 2631 Woodward Ave., for Detroit Stove Wks., East Jefferson Ave. Noted Apr. 29.

Ill., Canton — FACTORY — International Harvester Co., 606 South Michigan Ave., Chicago, 1 story, 39 x 160 ft., concrete and brick addition, here, to Austin Co., 160 North La Salle St., Chicago.

Ill., East St. Louis — FERTILIZER PLANT — Darling & Co., Missouri Ave. and Alton & Southern R.R. tracks, 1 story, 120 x 136 ft., concrete, brick and steel addition, to Austin Co., 160 North La Salle St., Chicago. Archts. est. $65,000.

Ill., Rockford — FOUNDRY — Greenlee Bros. Co., 1 story, 80 x 110 ft., brick and steel, Columbia Ave., to Holm-Page Co., Kishwaukee St.

Ill., Rockford—FACTORY—J. W. Miller, Incubator Co., 2500 Latham St., 1 and 2 story, 50 x 250 ft., concrete and brick, Latham St., to Holm-Page Co., Kishwaukee St. Noted Apr. 20.

Wis., Cumberland—PLANT—Cumberland Co-operative Dairy Co., A. Lundquist, secy., 1 story, 50 x 174 ft., rein.-con., brick and steel, plain foundation, to Nyman Constr. Co., Cumberland. Archts. est. $40,000.

Wis., Madison — SERVICE STATION — International Harvester Co., 606 South Michigan Blvd., Chicago, Ill., 1 story, 120 x 132 ft., brick and steel, plain foundation, here, to J. H. Findorff & Son, 601 West Wilson Ave. Archts. est. $70,000. Noted Apr. 29.

Wis., Madison—DAIRY PLANT—Madison Dairy Products Co., A. Steinhauer, mgr., 413 East Main St., 1 story, 66 x 120 ft., rein.-con., brick and steel, plain foundation, Washington St., to Stegerwald Lumber Co., Sun Prairie. Archts. est. $50,000. Noted May 6.

Wis., Milwaukee—FACTORY—F. Schaaf, 71 2nd St., and Henschien & McLaren, archts., 1637 Prairie Ave., Chicago, Ill., 3 story, 77 x 150 ft., brick and concrete, plain foundation, Clybourn St., to T. Stark & Co., 130 Muskego Ave. Archts. est. $75,000. Noted May 13.

Wis., Sheboygan — FACTORY — E. A. Juul, archt., Security Natl. Bank Bldg., 4 story and basement, 40 x 108 ft., rein.-con., brick and steel addition, to W. Guenther & Sons Co., 1224 North 4th St., for Northfield Co., 18th St. and Martin Ave. Archts. est. $50,000. Noted May 13.

Mo., St. Louis—SUBSTATIONS—City, 1 story, brick and concrete substations in Dists. B, C and D, to J. J. Clarke, Arcade Bldg., $39,998.

Mo., Versailles — FACTORY — L. Abt, archt., Moberly, general contract 1 and 2 story, 50 x 224 ft., brick and concrete shoe factory, here, to Dean & Hancock, Sedalia, for Chamber of Commerce. Archts. est. $60,000. Tweedle Footwear Corp., Jefferson City, lessee. Noted May 6.

Ark., Ft. Smith — FURNITURE and BEDDING FACTORY — Ft. Smith Couch & Bedding Co., 922 North 2nd St., 2 story, 100 x 185 ft., concrete and brick addition, North 2nd St., to J. R. Murphy Constr. Co., 1504 S. P. St. Archts. est. $50,000.

Tex., Houston—ELECTRIC PLANT—Houston Lighting & Power Co., c/o S. R. Bratton, Electric Bldg., 25,000 kv. electric generator addition to electric plant, to Texas Constr. Co., Electric Bldg., $2,000,000.

Tex., Houston — WAREHOUSE, COMPRESS, etc. — Manchester Terminal Corp., c/o R. H. Baker, Post Dispatch Bldg., will build 2 story, 250 x 1,500 ft., rein.-con and steel warehouse and compress, incl. 15,000 fln.ft. rein.-con. pier, by day labor, under supervision of R. J. Cummins, engr., 727 Bankers Mortgage Bldg. $5,000,000.

Ore., Salem—PAPER PLANT—Oregon Paper & Pulp Co., 2 story, 136 x 220 ft., rein.-con. addition, plain foundation, to Cuyler Van Patten, Salem. Archts. est. $60,000.

Ont., Lakefield — GENERATING STATION — Canada Co., Canada Cement Bldg., Montreal, Que., 16 ft. head, 2,300 hp. hydro-electric generating station, incl. vertical turbine, to Canadian Allis-Chalmers Ltd., 212 King St. W., Toronto; and generator, to Swedish General Electric Co., Ltd., 107 Duke St., Toronto. Engrs. est. $250,000.

Buildings—Educational, Religious

Proposed Work

N. H., Rochester — MECHANICS ART BUILDING — Rochester High School, c/o Dow, Harlow & Kimball, archts., 184 Boylston St., Boston, having sketches made 1 story and basement, 50 x 120 ft., brick and steel mechanics art building. $150,000.

Mass., Dorchester (Boston P. O.) — SCHOOL—Dorchester & Mattapan Hebrew School, M. E. Schneider, pres., 26 Pemberton Sq., Boston, having plans prepared by S. S. Levy, 35 Court St., Boston, 3 story and basement, 170 x 170 ft., brick and limestone, plain foundation, 800 Morton St. $400,000.

Mass., Malden (Boston P. O.) — CONVENT and CHAPEL — Church of Immaculate Conception, R. Neagle, pastor, Pleasant St., having revised plans prepared by O'Connell & Shaw, 134 Newbury St., Boston, 1 and 2 story, 18,000 sq.ft. floor space, brick

Buildings—Educational, Religious (Cont.)

and granite, Pleasant St. $175,000. Former bids rejected. Noted May 6.

Mass., Newton (Ind. br. Boston) — SCHOOL — City, Pub. Buildings Com., City Hall, plans 2 story, brick, Waverly Ave. and Ward St. $150,000 or more. Engineer and architect not selected.

Mass., Southbridge — HIGH SCHOOL — Town, E. G. Corbin, chn. Building com., plans Junior High School, 2 story, brick, Dresser St. $200,000. Engineer and architect not selected.

N. Y., Lu[illegible]o — SCHOOL — Bd. Educ., Genesee Bldg. plans elementary school, Military Rd. $500,000.

N. Y., Geneva—SCHOOL—Bd. Educ., W. Rice, pres., plans rebuilding brick and steel, Prospect St., recently destroyed by fire. $160,000. Architect not selected.

N. Y., Lake George — SCHOOL — Bd. Educ. soon takes bids 2 story, brick, steel and stone, plain foundation, West Main St. $200,000. E. S. Hewitt, 597 5th Ave., New York City, archt. J. F. Musselman, 101 Park Ave., New York City, engr. Noted May 20.

N. Y., Lockport—CHURCH—First Methodist Church, H. L. Breeze, chn. Building Com., 92 Main St., having sketches made by Foote & Carpenter, 143 East Ave., Rochester, 1 story and basement, brick, plain foundation, East Ave. $175,000.

N. Y., Newburgh—HIGH SCHOOL—Bd. Educ. takes bids about June 1, brick, steel and stone, plain foundation. $400,000. A. F. Gilbert, 358 5th Ave., New York City, engr. and archt. Noted Apr. 15.

N. Y., Rochester—HIGH SCHOOL—Bd. Educ., Municipal Bldg., plans 3 story and basement, brick, plain foundation, Dewey Ave. $2,000,000. Engineer and architect not selected.

N. Y., Syracuse — GYMNASIUM — Syracuse University, having plans prepared by J. R. Pope, engr. and archt., 42 5th Ave., New York City, 100 x 120 ft., brick, steel and stone, plain foundation, incl. swimming pool, on campus. $200,000.

N. C., Charlotte — CHURCH, etc. — Catholic Church, A. Gallagher, pastor, plans church center, in Dilworth (a suburb), incl. church, school, home, parish house, recreation building. $500,000.

N. C., Rocky Mount—HIGH SCHOOL—Election June 7, 350,000 bonds, new high school.

Fla., Tampa — CHURCH and PARISH HOUSE—St. Andrews Parish, c/o Froham, Robb & Little, archts., 140 Boylston St., Boston, Mass., had sketches made 1 and 2 story church and parish house, here. $500,000.

Miss., Jackson — CHAPEL — Permanent Impvt. & Building Com. University of Mississippi, having preliminary plans prepared by C. H. Lindsley, Jackson, new chapel. $150,000. Noted May 6.

La., Baton Rouge — HIGH SCHOOL — Rapids Parish School Bd. (Alexandria) takes bids probably in August 3 story, brick, concrete and stone high school, here, $300,000. Favrot & Livaudis, Ltd., Hibernia Bank Bldg., New Orleans, archts; also had plans prepared by C. E. Barron, Alexandria, negro school, $25,000. Noted Dec. 31 under "Boyce."

Tenn., Nashville — COLLEGE — State of Tennessee Agricultural and Industrial Negro Normal School, P. L. Harned, comr., plans Women's Dormitory, Science Hall, Training School, Library and Teachers Home. $325,000. State appropriates $160,600 towards cost and balance by subscription.

O., Columbus — COLLEGE — Pontificial College, S. O. Sephinum, 17th and Main Sts., having sketches made drawn by 3 architects, brick, concrete and stone, incl. church, gymnasium, libraries and college, North High St. near Flint St. $100,000.

O., Columbus — HIGH SCHOOL — Bd. Educ. having sketches made by H. D. Smith, 207 East State St., Junior High School, 2 story and basement, brick and concrete, Indianola Park. $325,000.

Mich., Detroit — HIGH SCHOOL — Bd. Educ., 1354 Bway. Ave., having plans prepared by Malcolmson & Higginbotham, 1217 Griswold St., 2 story and basement, rein.-con., brick and steel addition to Eastern High School, plain foundation, East Grand Blvd. $495,500. McColl, Snyder & McLean, 2348 Penobscot Bldg., engrs.

Mich., Detroit — SCHOOL — Bd. Educ., 1354 Bway. Ave., having plans prepared by McGrath, Dohmen & Page, 2231 Park Ave., 2 story and basement, 1,320 seating capacity, rein.-con., brick and steel, plain foundation Elmira and Meyers Aves. $400,500. Van Tuyl, Heartt & Barron, Union Trust Bldg., engrs.

Mich., Detroit — SCHOOL — Bd. Educ., 1354 Bway. Ave., having plans prepared by Malcolmsom & Higginbotham, 1217 Griswold St., 2 story and basement, 960 seating capacity, rein.-con., brick and steel addition to A. L. Holmes School, plain foundation, Georgia Ave. $336,600. McColl, Snyder & McLean, 2348 Penobscot Bldg., engrs.

Mich., Detroit — SCHOOL — Bd. Educ., 1354 Bway Ave., having plans prepared by McGrath, Dohmen & Page, 2231 Park Ave., 2 story and basement, 740 seating capacity, rein.-con., brick and steel, plain foundation, Clark School site. $255,500. E. R. Little Co., Inc., 1918 Ford Bldg., engrs.

Ill., Carbondale—COLLEGE—Southern Illinois State Teachers College having preliminary plans prepared by W. J. Lindstrom, engr. and archt., 568 Transportation Bldg., Chicago, Ill., 2 story and basement, rein.-con., brick and stone science and manual arts building. $250,000.

Ill., Chicago—CHURCH—Our Lady of Victory Congregation, F. Cichozki, 5212 Agatite Ave., having plans prepared by E. Brielmaier & Sons, 432 Bway., Milwaukee, Wis., 2 story and basement, brick and stone, Agatite Ave. $275,000.

Ill., De Kalb—COLLEGE—Northern Illinois State Teachers College, having preliminary plans prepared by W. J. Lindstorm, engr. and archt., 568 Transportation Bldg., Chicago, 3 story and basement, rein.-con., brick and stone college. $250,000.

Ill., Elgin — SCHOOL — Chicago Junior School, Inc., W. A. Beile, pres., 162 North State St., Chicago, having preliminary plans prepared group concrete, brick and stone school buildings, on Fox River 1 mi. north of here. $1,000,000.

Ill., Macomb—COLLEGE—Western Illinois State Teachers College, having preliminary plans prepared by W. J. Lindstrom, 568 Transportation Bldg., Chicago, 2 story and basement, rein.-con., brick and stone college. $250,000.

Ill., Waukegan—CHURCH—First Baptist Congregation, c/o L. Yager, chn., 515 North Sheridan Rd., having preliminary plans prepared 2 story and basement, rein.-con., brick and stone church. $150,000. Engineer and architect not selected.

Neb., Lincoln — CHURCH — First Christian Church having plans prepared by E. G. Groves, 1982 Bway., Denver, Colo., 1 story and basement, 80 x 143 ft. steel church, plain foundation, 16th and K Sts. $250,000.

Mo., Carrollton — SCHOOLS — Election June 8, $180,000 bonds, schools.

Tex., McAllen — SCHOOLS — Bd. Educ. plans election $385,000 bonds, 2 rein.-con., brick and stone schools.

Tex., Mercedes—HIGH SCHOOL—Voted $150,000 bonds, new high school. E. Malhausem, Mercedes, archt. Noted Apr. 29.

Tex., San Antonio—CHURCH—St. Marks Church, c/o R. P. Crum, pastor, takes bids after June 5, 3 story, 48 x 112 ft., brick, stone and concrete parish house, and 2 story, 50 x 100 ft., brick and concrete auditorium with balcony, Pecan and Jefferson Sts. $160,000. Giles & Beckmann, c/o Moore Bldg., archts.

Ore., Hood River—SCHOOL—Bd. Educ. having plans prepared high school, here. $169,000.

Calif., Los Angeles—SCHOOL—Bd. Pub. Wks., having revised plans prepared by Dodd & Richards, Brack-Shops Bldg., Riis School, 1 and 2 story, brick, 69th St. near Main St. $275,000. Former bids rejected. Noted Apr. 15.

Bids Desired

N. H., Durham—COLLEGE—June 1, by University of New Hampshire, R. Hetzel, pres., 2 story and basement, 60 x 75 ft., and 60 x 120 ft., brick and steel, on campus. $225,000. E. T. Huddleston, Durham, archt. Noted May 13.

Mass., Medford (br. Boston)—CHURCH—St. James Roman Catholic Church, Fellsway corner 4th St., taking bids 1 story and basement, brick and stone, plain foundation. To exceed $150,000. E. T. P. Graham, 171 Newbury St., Boston, archt. Noted Jan. 28.

Mass., Medford (br. Boston) — HIGH SCHOOL—June 10, by M. A. Dyer, archt., 1 Beacon St., Boston, Junior High School, 3 story and basement, irregular, brick and stone, plain foundation, Court and Park Sts., Ward 2, here, for City, R. E. Coolidge, mayor. $560,000. Noted May 20.

Mass., Roxbury (Boston P. O.) — CHAPEL — Rabbinical College Inc., taking bids on revised plans, 2 story and basement, 95 x 120 ft., rein.-con. and terra cotta, plain foundation, Warren and Brunswick Sts. $150,000. Former bids rejected. J. A. Tuck, Park Sq. Bldg., Boston, archt. Noted Apr. 29.

Mass., Taunton—SCHOOL—City, Comrs. Pub. Property, taking bids 2 story and basement, brick and stone, Barnum St. $150,000. G. W. Briggs, 53 State St., Boston, archt. Noted May 6.

N. Y., Brooklyn—SCHOOL—June 8, by Bd. Educ., 500 Park Ave., New York City, P. S. 91, Albany Ave. and Maple St., here. W. H. Gompert, Flatbush Ave. extension and Concord St., archt. and engr.

N. Y., Poughkeepsie—REFECTORY and DORMITORIES — Vassar College taking bids 2 and 3 story and basement, brick, refectory and dormitories. To exceed $150,000. Allen & Collins, 75 Newbury St., Boston, Mass., archts.

N. J., Jersey City—SCHOOL—June 2, by Bd. Educ., P. S. 22, 2 story school, Van Horne and Maple Sts. $200,000. J. T. Rowland, 100 Sip Ave., Jersey City, archt.

Pa., Phila. — STADIUM and GYMNASIUM — June 1, by Day & Klauder, archts., 1410 Chestnut St., 2 story and basement, 277 x 343 ft., rein.-con., brick and steel, concrete pile foundation, 33rd and South Sts., for University of Pennsylvania, 34th and Spruce Sts. $400,000. W. H. Gravell, Otis Bldg., engr. Noted Jan. 21 under "Unclassified."

Pa., Sharon — SCHOOL — Bd. Educ., taking bids 2 story and basement, 50 x 52 ft., and 62 x 161 ft., brick, steel and concrete school. $200,000. E. S. Hanna and E. E. Clapper, McDowell Bank Bldg., archts. Noted Apr. 8.

O., Cleveland—LIBRARIES—June 15, by Public Library Bd., C. S. Metcalf, secy.-treas., East 3rd St. and Superior Ave., two 1 and 2 story, brick, steel and concrete branch libraries, one Parkwood Dr., and other 2820 East 116th St. $180,000. Walker & Weeks, 1900 Euclid Bldg., archts.

Ill., Alton—HIGH SCHOOL—June 3, by H. H. Hewitt, secy. Bd. Educ., 3 and 4 story, rein.-con., brick and stone, College St. $500,000. L. Pfeiffenbergers Sons, 102 West 3rd St., Alton, archts. $500,000. Noted Apr. 15.

Ill., Urbana — ARCHITECTURAL SCHOOL — June 12, by University of Illinois, 3 story, rein.-con., brick and stone, on campus. $500,000. J. E. White, administration Bldg., ch. engr. and archt. C. A. Platt, 101 Park Ave., New York City, consult. engr. and archt. Noted Feb. 25.

Calif., Inglewood—SCHOOL—L. F. Mulqueen, archt., Finance Bldg., Los Angeles, taking bids 2 story and basement, 53 x 106 ft., brick, here, for Roman Catholic Archbishop, Los Angeles.

Que., Sherbrooke — CONVENT — L. N. Audet, 30 Wellington St. N., taking bids 4 and 5 story, 2 wings, stone and steel, Drummond Rd., for Sister Ste. Famille, Marquette St. $600,000.

B. C., Vancouver—SCHOOLS—May 31, by Bd. School Trustees, Hamilton St., two 3 story, 11 room, rein.-con. and tile, plain foundations. $200,000. Sharp, Thompson & F. A. A. Barrs, 708 London Bldg., archts. P. P. Brown, 410 London Bldg., engr.

Bids Received

Conn., Danbury — DORMITORY — State Bd. Educ., 130 Washington St., Hartford, May 19, 2 story and basement, 7,040 sq.ft. floor space, brick, here, from Hewlett Co., 886 Main St., Bridgeport, $128,960. Noted May 6.

N. Y., Maspeth (Ind. sta. Flushing)—SCHOOL—W. H. Gompert, supt. School Buildings, Flatbush Ave. extension and Concord St., Brooklyn, May 20, general contract P. S. 73, 54th Ave. and 71st St., here, for Bd. Educ., 500 Park Ave., New York City, from Hamilton & Chambers, 29 Bway., New York City, $339,700; plumbing, from G. M. O'Connor, 152 Fulton Ave., Astoria, $28,300; and heating, from D. J. Rice, Inc., 606 1st Ave., New York City, $49,279. Noted May 13.

N. Y., Springfield — SCHOOL — W. H. Gompert, supt. School Buildings, Flatbush Ave. extension and Concord St., Brooklyn, May 20, general contract P.S. 52, from comfort to Grand Ave., here, for Bd. Educ., 500 Park Ave., New York City, from Willets Constr. Co., 280 Madison Ave., New York City, $370,000; plumbing, from J. A. Graf, 111 Putnam Ave., Brooklyn, $25,631; and heating, from D. J. Rice, Inc., 606 1st Ave., New York City, $49,713. Noted May 13.

Pa., Pittsburgh—HIGH SCHOOL—Bd. Educ., Fulton Bldg., May 13, 2 and 3 story and basement, irregular shaped addition to Samuel P. Langley High School, Chartiers

Buildings—Educational, Religious (Cont.)

Ave., from Gilpatrick Dawson Co., Empire Bldg., $424,000. Noted May 13.

Contracts Awarded

Me., Portland — CHURCH — Immanuel Baptist Church, 1 story and basement, brick and stone, High and Deering Sts., to Googins & Clark, 46 Portland St. Archts. est. $150,000.

N. H., Peterboro—HIGH SCHOOL—City, School Building Com., 2 story and basement, brick and stone, to R. Carll, Peterboro. Archts. est. $150,000.

Mass., Dorchester (Boston P. O.) — SCHOOL — Schoolhouse Dept., Boston, 2 story and basement, 115 x 175 ft., brick addition, Monot Dist., here, to M. S. Kelliher, 21 North Monroe Terrace, $187,390. Noted May 20.

Mass., Gardner — HIGH SCHOOL — Bd. Educ., 2 story and basement, brick and stone, plain foundation, to L. Rocheford & Son, Worcester, $379,087; heating and ventilating, to Holyoke Supply Co., Holyoke, $62,330; plumbing and drainage, to W. Norris, Gardner, $29,500.

Conn., New Haven — CLASS and LECTURE — Yale College, J. R. Angell, pres., for Harkness Memorial, brick, steel and stone, College and Blount Aves., to Sperry & Treat, 39 Church St. Archts. est. $900,000. Noted Feb. 11.

N. Y., Corning—HIGH SCHOOL—Bd. Educ., brick, steel and stone, plain foundation, to Corning Building Co., Corning. Archts. est. $350,000. Noted Apr. 22.

N. Y., Montrose—HIGH SCHOOL—Bd. Educ., general contract brick, steel and stone, plain foundation, to L. Kiel, Ossining, $270,000; heating, to Johnston Heating Co., 131 East 26th St., New York City, $34,750. Noted May 13.

N. Y., New York—CHEMISTRY—New York University, University Heights, 4 story, brick, steel and stone, plain foundation, on campus, to Saxton-Gerard Co., Inc., 19 West 44th St. Archts. est. $750,000. Noted Apr. 15.

N. J., Cliffside Park (mail Cliffside)—HIGH SCHOOL—Bd. Educ., Cliffside, brick, steel and stone addition, Parkside Ave., here, to Coppoletta Bros., Cliffside Park, $227,000; ventilating, heating, etc., to G. B. and B. H. Steinke, Cliffside, $33,250. Noted May 6.

N. J., Newark—CHURCH—Cathedral of Sacred Heart, brick, steel and stone, plain foundation, here, to E. M. Waldron, Inc., 84 South 6th St., $778,217.

N. J., West New York (Ind. br. Weehawken)—HIGH SCHOOL—Bd. Educ., Municipal Bldg., Memorial High School, Park Ave., Bway., 11th and 12th Sts., to Auf Der Helde Constr. Co., West New York, $613,000. Noted May 20.

Pa., Pittsburgh — HIGH SCHOOL — Bd. Educ., Fulton Bldg., 2 and 3 story and basement, irregular shaped addition to Samuel Langley High School Chartiers Ave., to Gilpatrick Dawson Co., Empire Bldg., $424,000; heating and ventilating, to W. N. Sauer Co., 806 Chestnut St., $49,197; and plumbing, to Moss & Blakeley Co., 223 Beltzhaver St., $29,355. Grand total $502,552. Noted May 13.

Md., Baltimore—SCHOOL—Mayor and City Council, 2 story and basement, irregular shaped, brick and steel, plain foundation, Patterson Park Ave. and McElderry St., to DeCou & Davis, 9 West Chase St., $261,700. Noted May 20.

Fla., Sanford—HIGH SCHOOL—Bd. Educ., 2 story, 130 x 262 ft. high school, French and Central Aves., to F. Lossing, Sanford, $194,000.

Ky., Harrodsburg—CHURCH—Christian Church, 2 story, 106 x 108 ft., concrete, brick and steel church, to J. T. Jackson Lumber Co., Lexington. Archts. est. $200,000. Noted Apr. 22.

Ill., Danville—CHURCH and SUNDAY SCHOOL—St. James Methodist Episcopal Congregation, T. N. Ewing, pastor, 1 and 2 story, 175 x 240 ft., rein.-con. and limestone, Williams and Vermillion Sts., to W. F. Keuhne, Rantoul. Archts. est. $250,000.

Ill., Peoria—HIGH SCHOOL—Bd. School Inspectors, G. T. Monst, secy., general contract Blaine Summer School, 3 story, 183¼ x 251¼ ft., rein.-con., brick and stone, to V. Jobst & Sons, Lehman Bldg., $253,500; plumbing, heating and ventilating, to J. M. Shea & Co., 1025 South Adams St., $53,713. Noted May 20.

Wis., Holy Hill (Hubertus P. O.) — CHURCH—Carmelite Fathers, Route 1, Hubertus, superstructure 2 story, brick and stone church, to H. Schmitt & Son, 14 Burleigh St., Milwaukee. Archts. est. $300,000.

Ia., Des Moines — CHURCH — Dougher, Rich & Woodburn, archts. and engrs., 806 Valley Natl. Bank Bldg., ground floor and Sunday school room, 2 story, 185 x 191 ft., rein.-con. and steel, plain foundation, 41st St. and Ingersoll Ave., to A. H. Neumann & Co., 519 Hubbell Bldg., for Plymouth Congregational Church. $180,000. Archts. total est. $300,000. Noted May 6.

Federal Government Work

Proposed Work

Ill., Great Lakes (mail Waukegon) — Apartment—Spec. 5158—Bureau Yards & Docks, Navy Dept., Wash., D. C., rejected bids May 12, apartment for officers, at Naval Training Camp, here. Noted May 20.

California—Road—U. S. Bureau Pub. Rds., 9 Main St., San Francisco, making specifications grading, etc., 16 mi. Covelo-Lew Gap Natl. Forest Rd. Project, Mendocino Co.

Bids Desired

Mass., Fort Warren—Water System—June 21, at office Quartermaster, Infantry Post, reconstructing water distribution system.

N. Y., Plattsburg—Remodeling—June 11, by Treas. Dept. at office Supervising Archt., Wash., D. C., remodeling and enlarging U. S. Post Office and Custom House, here adv. E. N.-R. May 27.

Pa., Phila.—Conduits, etc.—June 1, by Treas. Dept. at office Supervising Archt., Wash., D. C., installing conduits, ceiling, terrazzo and wood floor, at U. S. Mint, here.

Pa., Pittsburgh—Houses—June 18, by U. S. Engineer Office, two 2 story lockkeepers houses at Locks 7 and 8, in Monongahela River; adv. E. N.-R. May 27.

Pa., Pittsburgh—Dam—June 21, by U. S. Engineer Office, Dam 5, Allegheny River; adv. E. N.-R. May 27.

Va., Quantico—Dredging—Spec. 5163—June 9, by Bureau Yards & Docks, Navy Dept., Wash., D. C., dredging at Marine Barracks, here.

O., Dayton—Administration, etc.—June 11 at office Constructing Quartermaster, Wright Field, administration and laboratory building (except foundations) at Wright Field, here; adv. E. N.-R. May 27. Noted Apr. 1.

Ill., Chicago — Dredging — June 22, by U. S. Engineer Office, 537 South Dearborn St., dredging in Calumet River; adv. E. N.-R. May 27.

Minn., Winona—Boilers, etc.—June 17, by Treas. Dept. at office Supervising Archt., Wash., D. C., boilers, heating system, etc. at U. S. Courthouse and Post Office, here; adv. E. N.-R. May 27.

South Dakota—Road—June 1, by J. W. Johnson, dist. engr. Bureau Pub. Rds., Custom House, Denver, Colo., grading, etc., 3.55 mi. Deadwood-Hot Springs, Sheridan Natl. Forest Rd. Project, Pennington Co., here.

N. D., Devils Lake — Mess Hall, etc. — June 8, by H. Sorenson, U. S. Property & Disbursing Officer, officers mess hall, kitchen, etc. at Camp Gilbert C. Grafton.

Colorado—Road—June 1, by J. W. Johnson, 301 Custom House Bldg., Denver, grading, etc. 2.16 mi. Mt. Evans Chicago Creek Sect. Natl. Forest Road Project, Clear Creek Co.

Colorado—Road—June 2, by J. W. Johnson, dist. engr. Bureau Pub. Roads, Custom House, Denver, grading, etc., 3.95 mi. South St. Vrain Sect. 2, Natl. Forest Rd. Project, Boulder Co.

New Mexico—Road—June 2, by J. W. Johnson, dist. engr. Bureau Pub. Rds., 301 Custom House, Denver, Colo., grading, etc., 10 mi. Navajo Canyon, Surfacing Sect. Natl. Forest Rd., Project, Rio Arriba Co., here.

California — Road — June 2, by C. H. Sweetser, dist. engr. U. S. Bureau Pub. Rds., 9 Main St., San Francisco, grading, bridging, etc., 16.3 mi. Covelo Sect. Mendocino Pass, Natl. Forest Rd., Mendocino Co.

Calif., Livermore—Kitchen, etc.—June 28, by U. S. Veterans Bureau, Arlington Bldg., Wash., D. C., kitchen for ambulant cottages, dining room, covered walks, etc., here. L. H. Tripp, ch. constr. bureau.

Calif., San Diego—Dredging—June 10, by U. S. Engineer Office, Los Angeles, 388,000 cu.yd. dredging in harbor, here.

Bids Received

Mass., Rutland Heights — Refrigeration and Ice Making Machinery—U. S. Veterans Bureau, Arlington Bldg., Wash., D. C., May 18, refrigerating and ice making plant at U. S. Veterans Hospital 89, here, from New England Ice Machine Co., Charlestown, (1) $9,663 (2) $12,000 (90 days). Noted May 13.

Md., Baltimore—Storehouse—Treas. Dept. at office Supervising Archt., Wash., D. C., May 17, storehouse at U. S. Quarantine Station, here, from Bell Concrete Constr. Co., Inc., 802 East Eager St., $2,648. Noted May 13.

Fla., Miami—Remodeling—Treas. Dept. at office Supervising Archt., Wash., D. C., May 14, remodeling U. S. Post Office here, from L. Fleisher Co., Inc., Miami, $12,500. Noted Apr. 29.

Ga., Augusta—Recreation—U. S. Veterans Bureau, Arlington Bldg., Wash., D. C., May 18, recreation building at U. S. Veterans Hospital 62, here, from A. C. Samford, 24 Galena St., Montgomery, Ala., $85,500 (180 days). Noted Apr. 15.

Ind., Anderson—Extension—Treas. Dept. at office Supervising Archt., Wash., D. C., May 18, 1 story and basement extension to U. S. Post Office, here, from A. M. Lundberg, 208 North Bway., St. Louis, Mo., $14,200. Noted May 6.

Mich., Camp Custer (br. Battle Creek)—Curbs, etc.—U. S. Veterans Bureau, Arlington Bldg., Wash., D. C., May 8, curbs and gutters at U. S. Veterans Hospital 100, here, from H. C. Gobe Constr. Co., Battle Creek, Mich., $13,460 (45 days). Noted Apr. 29.

Ill., Great Lakes (br. Waukegan)—Mezzanine — Spec. 5209 — Bureau Yards & Docks, Navy Dept., Wash., D. C., May 19, mezzanine floor in storehouse, at Naval Training Station, here, from Harmon Eng. Co., 844 North Rush St., Chicago, $12,965. Noted May 13.

Contracts Awarded

D. C., Wash.—Hospital, etc.—U. S. Veterans Bureau, Arlington Bldg., general contract kitchen, mess and two ward buildings, to G. E. Wyne, 2525 Penn. Ave., $669,823; plumbing and heating, to W. G. Cornell Co., 19 Patterson St. N. E., $35,881 and $67,025 respectively; electrical work, to Capitol Elevator Co., 829 14th St., $23,216; elevators, etc., to Westbrook Elevator Co., Inc., Danville, Va., $12,115; and refrigeration plant, to Chatard & Norris, 206 Water St., Baltimore, Md., $15,800. Grand total $823,859. Noted Apr. 29.

D. C., Wash.—Power Plant—U. S. Engineer Office, 1068 Navy Dept. Bldg., power plant for Dist. of Columbia water supply, to Parson & Hyman, Inc., Equitable Bldg., $209,400. Noted May 20.

Va., Norfolk—Catamarans, etc.—U. S. Engineer Office, pontoon catamarans, to Newport News Shipbuilding & Dry Dock Co., Newport News, Va., $30,285; and pipe line dredge, to Novelty Steam Boiler Wks., 917 South Howard St., Baltimore, Md., $8,280. Noted Apr. 1.

Miss., Vicksburg—Levee—Third Mississippi River Dist., P. O. Box 404, Item 1 to Elkas, Weathers & Burt, Greenville, Miss., $57,375; Items 2, 3 and 5, to T. W. Roach, Main and Adams Sts., Memphis, Tenn., $177,300; Item 4, to Wooten & Rodgers Co., 62 South Front St., Memphis, Tenn., $69,000; and Item 6, to R. T. Clarke Co., Inc., J. W. Noble and R. P. Harris, Natchez, Miss., $12,558. Grand total $316,233. Noted Apr. 29.

La., New Orleans—Earthwork—U. S. Engineer Office, 140 Decatur St., to Acme Constr. Co., Point-a-la-Hache, Junior Levee, $4,740, Goldmine Levee in La Fourche Levee Dist. $16,489, Hermitage-Diamond Levee $37,562, Orange Grove and Scarsdale Levee $9,000; to Dameron & Kenyon, Port Allen, Tacon-Palo Alto Levee and Vidalis St. Genevieve Levee, Lower Tenas Levee Dist. $136,500; to Lafourche Basin Levee Bd., Donaldsville, St. Rosalie Ironton Levee, in Baratria Levee Dist. $9,690; to S. B. Schoenberger, Triumph, Wench Villa, Magnolia and Point Celeste Woodland Levees $10,260, also Story-Merritt Levee, in Lake Borgne Levee Dist. $13,800; to D. C. Hearin & Son, Baton Rouge, Monroe-Whitehall Levee in Pontchartrain Levee Dist., $62,446; to Lower Coast Constr. Co., Ltd., Godchaux Bldg., New Orleans, Good Hope Levee, $45,500; to P. M. Adima, Pointe-a-la-Hache, Promised Land and Fanny Levees, $12,541; and to Grasser Constr. Co., Canal-Commercial Bldg., New Orleans, Turners Bayou to Crooked Bayou Levee, Bayou Bouef Levee Dist., $53,325. Grand total $411,853. Noted Mar. 25.

Indiana — Dredging — U. S. Engineer Office, 537 South Dearborn St., Chicago, Ill., dredging in Indiana Harbor Canal, here, to Great Lakes Dredge & Dock Co., 104 South Michigan Ave., Chicago, Ill., $22,176. Noted Apr. 29.

Unclassified

Proposed Work

Transmission Line—New York—Buffalo Niagara & Eastern Power Co., Electric Bldg., Buffalo, plans extending transmission line from Hunts Corners, west a distance of 3 miles. $100,000.

Swimming Pool—Syracuse, N. Y.—See "Buildings—Educational, Religious."

Grade Crossing Elimination — Greensboro, N. C.—City and Southern Ry., B. Herman, ch. engr., 1300 Penn. Ave., Wash., D. C., plan eliminating 9 grade crossings. P. C. Painter, city mgr. O. S. Payzant, engr. for architectural firm of Felheimer & Wagner, 155 West 42nd St., New York City, in charge surveys and plans.

Overpass—Tennessee—State Dept. Highways & Pub. Wks., Nashville, takes bids about June 13, rein.-con. overpass over Mobile Ohio R.R. tracks, near Youngs Crossing, and one over Southern R.R. tracks at Caswell Station, also embankment, approaches to same. Each to exceed $25,000 each. C. N. Bass, highway comr.

Dock—Cleveland, O.—See "Buildings—Industrial."

Grade Separation—Detroit, Mich.—City Council, J. L. Barton, grade separation engr., and Grand Trunk Railway System, Detroit, F. P. Sisson, div. engr., plan grade separation on Dequindre St. line of Grand Trunk Ry., incl. bridges, etc., on Sherman and Catherine Sts. $327,071. J. L. Barton, City Hall, engr.

Lighting System — Cairo, Ill. — See "Streets and Roads."

Park Improvements, etc.—Appleton, Wis.—Park Bd., J. A. Wood, secy., soon takes bids improving Pierce Park. $50,000. D. Bushey, City Hall, engr.

Street Lighting System—Whitefish Bay, Wis.—Making plans extending ornamental street lighting system on various streets, approximately 150 concrete posts and lights. $30,000. T. F. Buckley, Village Hall, engr.

Car Barns—Cedar Rapids, Ia.—Cedar Rapids & Marion City Ry. Co., D. Ave. and 2nd St., having plans prepared by E. Lerch, United Light Bldg., Davenport, 1 and 2 story, 140 x 300 ft., steel, plain foundation. $200,000. G. T. Shoemaker, United Light Bldg., Davenport, engr. Noted Apr. 1.

Street Lighting System—St. Paul, Minn.—City authorized street lighting system on Montreal Ave. between West 7th St. and Snelling Ave., Edgcumbe Rd. between Randolph and Montreal Aves., Ford Rd. between Mississippi Bridge and Snelling Ave., and Snelling Ave. between Otto and Montreal Aves. $60,000. G. M. Shepard, city engr.

Lighting System — Canton, Mo. — See "Streets and Roads."

Parks and Playgrounds—Webster Groves (Ind. br. St. Louis), Mo.—Defeated $225,000 bonds, parks and playgrounds, etc. Noted Apr. 29.

Cement Block Plant—Alamo, Tex.—Deer Creek Stone Quarries, Topeka, Kan., making preliminary plans cement block plant, here. $60,000. Private plans.

Resort, Playground, etc.—Corpus Christi, Tex.—S. Robertson, Brownsville, making plans developing (1st unit) 5,000 acres, portion Padre Island, for playground and resort, light plant, waterworks system and paving. $100,000. G. F. Green Co., Tampa, Fla., engr.

Gas Mains — Santa Barbara, Calif. — Southern Counties Gas Co. of California, 311 South Spring St., Los Angeles, plans extending gas mains, etc., in various streets. $250,000.

Transmission Line—Quebec—Shawinigan Water & Power Co., Shawinigan Falls, soon takes bids 15 mi. 60,000 hp. transmission line from Grande Chute through St. Genevieve, St. Maurice and Cap de la Madeleine Parishes.

Lamp Standards and Cables — Montreal, Que. — City Council voted $71,800 bonds, lamp standards and cables in connection with new lighting systems.

Lines, Cables, etc.—Kingston, Ont.—Bell Telephone Co. of Canada, plans extending lines, cables, services, etc. $50,000.

Dock—Newcastle, New South Wales—State Government plans 15,000 ton capacity floating dock for port, here. $3,000,000.

Bids Desired

Station Finish Work—New York, N. Y.—June 7, by Bd., Transportation, J. H. Delaney, chn., 49 Lafayette St. station finish work at Times Square Sta. of Rapid Transit R.R.

Sanitary Work, etc.—Utica, N. Y.—June 16, by State Hospital Comn., Capitol, Albany, sanitary work, plumbing, etc. main building Utica State Hospital, here; adv. E. N.-R. May 27.

Subway—Phila., Pa.—June 16, by H. E. Ehlers, dir. Dept. City Transit, 1211 Chestnut St., special track work, channels and appurtenances for Broad St. subway.

Transmission Line—Greensboro, Ga.—See "Contracts Awarded."

Airplane Hangar—Lansing, Ill.—May 29, by Ford Motor Car Co., Highland Park, Mich., 1 story, 124 x 125 ft., rein.-con., brick and steel airplane hangar, here. A. Kahn, 1000 Marquette Bldg., Detroit, Mich., archt.

Gas Pipe Line — Texas — See "Contracts Awarded."

Bids Received

Timber Piles, etc. — Albany, N. Y. — Albany Port Comn., 100 State St., May 21, timber piles and platform for bulkhead at Port of Albany, on Westerlo Island, from Great Lakes Dredge & Dock Co., 27 Lumber Dist., $319,220. Noted May 13.

Tunnel — Oakland, Calif. — East Bay Municipal Utility Dist., Ray Bldg., 1924 Bway., May 14, constructing Claremont Tunnel, portion of East Bay Aqueduct of Modelumne River Project, from McDonald & Kahn, 130 Montgomery St., San Francisco, $1,068,140. Noted Apr. 8.

Contracts Awarded

High Power Receiving Station—Belfast, Me.—Radio Corp. of America, 66 Broad St., New York City, high power receiving station, here, to Skinner & Cook, 280 Madison Ave., New York City. Archts. est. $50,000.

Standpipe and Elevated Tank—Quincy (Ind. Br. Boston), Mass.—Dept. Pub. Wks., concrete steel standpipe and tanks, to Chicago Bridge & Iron Wks., 1305 West 105th St., Chicago, Ill., $55,000. Noted Apr. 29.

Stadium — Greensboro, N. C. — Stadium Com., c/o E. B. Jeffreys, mayor, grading and constructing concrete stadium, etc., to Carolina Contg. Co., Greensboro, $119,652. Noted Apr. 15.

Transmission Line — Greensboro, Ga. — Georgia Ry. & Power Co., 75 Marietta St., Atlanta, will build 4 mi. 38,000 volt transmission line, by day labor.

Lighting System—St. Petersburg, Fla.—Lighting system on Tangerine Ave., to Wright Electric Co., St. Petersburg, $57,763.

Camp—Tullahama, Tenn.—W. C. Boyd, State Adj. General Tennessee Natl. Guard, State Capitol Bldg., Nashville, for National Guard Camp, incl. waterworks, sewers and clearing site, here, to J. Marlin Constr. Co., Tullahama; constructing barracks and miscellaneous buildings, to Maugan-Bell Constr. Co., Murfreesboro. Total $68,000. Noted Apr. 22.

Promenade — Detroit, Mich. — H. W. Busch, comr. Parks & Boulevards, brick, concrete and stone promenade around James Scott Water Fountain on Bell Isle, to Gallagher-Fleming Co., 6500 Epworth Blvd., $37,000. Noted May 20.

Storage Bins — Superior, Wis. — Cargill Elevator Co., Bd. Trade Bldg., Duluth, Minn., 32 concrete storage bins, etc., for grain elevator, on Montreal Pier, here, to Barnett & Record Co., Lyceum Bldg., Duluth, Minn., $200,000.

Culverts — Grundy Center, Ia. — See "Streets and Roads."

Culverts — South Dakota — State Hy. Comn., Pierre, culverts on State Aid Project 42, Corson Co., to Northwestern Eng. Co., Kadoka, $33,687. Noted Apr. 22 under "Streets and Roads."

Gas Pipe Line—Texas—Upham Gas Co., c/o C. R. Upham, Childress, will build 356 mi. 12 in. gas pipe line from Wheeler Co. fields to Wichita Falls, by day labor. $3,000,000. Private plans.

Pier — Houston, Tex. — See "Buildings—Industrial."

Overhead Crossing — Washington — See "Streets and Roads."

Dock—Olympia, Wash.—Port Comn., constructing dock on west side harbor fill, incl. driving 769 creosoted and 35 untreated piles 200,000 lb. wrought and c.i., etc., to T. E. Jones, Coleman Bldg., Seattle, $52,372.

Amusement Park—Quebec, Que.—Belmont Park Amusement Co., c/o F. H. Blackwell, Chateau De Blois, Three Rivers, amusement park, here, to C. Leclerc, 19 Hart St., Three Rivers. Engrs. est. $150,000.

Subway — Toronto, Ont. — Toronto Terminals Rys. Co., New Union Sta., rein.-con. and steel subways at Bay and Yonge Sts., and concrete concourse between above streets, to P. Lyall & Sons Constr. Co., 120 St. James St., Montreal, Que. Engrs. est. $2,000,000-$2,500,000. Noted. Apr. 15.

Wharf—North Vancouver, B. C.—Rein.-con. addition to Ferry Wharf, to Georgia Constr. Co. Ltd., Bank of Toronto Bldg., Vancouver, $26,980.

Foundation—Victoria, B. C.—See "Excavation, Drainage, Irrigation, Levees, River and Harbor."

Materials

Proposed Work

Ballast—Phila., Pa.—Dept. Supplies, E. J. Lafferty, dir., rejected bids May 10, 2,425 tons slag and 7,921 tons 1.5 x 2.5 ballast, 1,363 tons ¾ and 1,475 tons ½ stone. Noted May 6.

Road Oil—La Crosse, Wis.—Bd. Pub. Wks. soon takes bids 5 car loads road oil. C. C. Congdon, City Hall, engr.

Bids Desired

Cement, etc.—St. George, N. Y.—June 4, by J. A. Lynch, pres. Richmond Boro, Boro Hall, portland cement, sand ¾ in. stone, brick, lumber, etc. as directed.

Cement—Chicago, Ill.—June 1, by City, Room 406, City Hall, 9,000 bbl. mason cement at Western Ave. Pumping Station, 50th St. and Western Ave. A. A. Sprague, comr.

Steel—Los Angeles, Calif. — Shell Co., California Higgins Bldg., taking bids 3,000 tons structural steel for steel storage oil tanks.

Rails—Melbourne, Australia—June 2, by Secretary Victorian Govt. Railways, 14,190 railway rails, 60 pds. per yd., and 45 ft. long; also 13,500 pairs fish plates for same.

Bids Received

Rails, Screws, etc. — Phila., Pa. — H. E. Ehlers, dir. Dept. City Transit, 1211 Chestnut St., May 21, rails, splice bars, bolts, nut locks and screw spikes, Contr. 123, for Broad St. subway, from Bethlehem Steel Co., Bethlehem, $172,541. Noted May, 13.

Contracts Awarded

Wood Blocks — Boston, Mass. — Supply Dept., 50,000 wood blocks, to C. & R. Constr. Co., 67 Harrison Ave. E., Roxbury, $3,100. Noted Apr. 22.

Iron Casting — New York, N. Y. — J. Miller, pres. Manhattan Boro, Municipal Bldg., iron castings to Corporation Yards, to Campbell Fdry. Co., 33 Manor Ave., Harrison, N. J., $25,000; and to Flockhart Fdry., 79 Polk St., Newark, N. J., $25,123.

Steel — New York, N. Y. — New York Central R.R. Co., Grand Central Terminal, structural steel for viaduct from Clair Pl. to West 137th St., to Railroad Supply Co., 30 Church St., $260,000.

Road Oil—St. Paul, Minn.—F. S. Gram, city purch. agt., 300,000 gal. road oil, to Standard Oil Co. of Indiana, 1937 Southeast 4th St., Minneapolis, at $.0619 per gal. Noted May 13.

Road Oil—St. Paul, Minn.—G. J. Reis, aud. Ramsey Co., 300,000 gal. road oil, to Standard Oil Co. of Indiana, 1937 Southeast 4th St., Minneapolis at $0.06 per gal. Noted May 6.

Pipe—Los Angeles, Calif.—To Republic Supply Co., 2122 East 7th St., 30,000 ft. ¾ in. galvanized wrought steel pipe at $5.08 per cu. ft., and 33,000 ft. 1 in. $8.87.

Cast Iron Pipe, etc. — Toronto, Ont. — York Twp., c.i. pipe, to Natl. Iron Corp., foot of Cherry St., $26,600; hydrants and gate valves, to J. T. Hepburn, Van Horne Ave., $1,295 and $1,922 respectively; hydrants, to Bowden Machine Co., Sterling Rd., $1,298; road oil, to McColl Bros., Ltd., 114 Don Esplanade, $18,800; road oil application, to Municipal Road Spraying & Oiling Co., Confederation Life Bldg., $4,800; lead pipe and pig lead, to Canada Metal Co., 39 Fraser Ave., $10,665; iron castings, to Dominion Wheel & Foundries, Ltd., 131 Eastern Ave., $15,975; brass fittings, to T. McAvity & Sons, Ltd., 48 Lombard St. $4,005, to Empire Brass Mfg. Co., 110 Adelaide St. W. $1,055, to Canadian Rumely Co., Ltd., 48 Abell St. $2,700, and Mueller, Ltd., Sarina, Ont. $2,270. Grand total $91,385.

See proposal advertising on page 168, Advertising Section

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